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https://www.allancorda.click (AI Project)

Allan Corda

Software Engineer

Experienced Software Engineer specializing in backend development, APIs, and database optimization, with a strong background in full-stack development. Over **5+ years** of experience leading and contributing to high-impact projects across industries, including **ride-sharing, real estate, banking,** and **CRM systems**. Proven expertise in **PHP (Laravel), .NET C#, Docker, SQL/NoSQL databases (MySQL, MongoDB, Firebase, Redis), and API development**. Strong advocate for **clean, maintainable code, Agile methodologies, and DevOps best practices**. Passionate about building **efficient, scalable, and secure backend systems** while mentoring teams and driving technical innovation.

EXPERIENCE

Carelancer, Canada —*Software Engineer (Lead Backend & Database, Laravel/PHP)*

July 2025 – Present

Saas platform for individuals that require quality care at their own home. This platform is flexible, accessible and works for all individuals alike.

- Lead the design, development, and maintenance of high-performance PHP applications, particularly using Laravel.
- Architect scalable and modular microservices to support seamless integration and long-term growth.
- Design, optimize, and manage databases for performance, integrity, and scalability.
- Develop and maintain RESTful APIs to support web and mobile applications.
- Collaborate closely with product, design, and development teams to translate requirements into well-documented and functional solutions.
- Optimize application performance for speed, reliability, and scalability.
- Ensure robust application security by identifying vulnerabilities and implementing best practices.
- Write clean, testable, reusable, and well-documented code, adhering to industry standards and internal guidelines.
- Analyze, integrate, and document third-party APIs and services based on business needs.

- Collaborate with front-end and mobile developers to ensure smooth end-to-end user experiences.
- Guide and mentor development team members, promoting best practices and efficient workflows.
- Contribute to architectural decisions to align with business and technical goals.
- Maintain deployments and manage release cycles, ensuring smooth rollouts with minimal downtime.
- Handle payment gateway integration and maintenance, ensuring secure and seamless transaction processing.
- Stay updated on backend trends and emerging technologies to keep the system modern and competitive.
- Participate in Agile ceremonies, including sprint planning, standups, and retrospectives.
- Support testing, reviews, and feedback cycles to ensure delivery of high-quality software.

Creativity By Code, Canada —*Software Engineer (Backend & Database, Laravel/PHP)*

Sept 2024 – Dec 2024

- **Developed and maintained back-end services** for property management, transaction tracking, and financial analysis platforms using **Laravel PHP**, ensuring scalable and maintainable code.
- **Designed and optimized relational database schemas** (SQL), improving data integrity and query performance for real estate agents, clients, and financial institutions.
- **Implemented API integrations** with third-party services, enabling seamless data exchange between external financial platforms and internal applications.
- **Refactored backend logic and middleware**, optimizing data processing pipelines and improving overall system performance.
- **Developed caching strategies** using **Redis** to enhance system responsiveness and reduce database load.
- **Applied Test-Driven Development (TDD)** principles, writing automated tests with **Pest** and ensuring high code reliability.
- **Utilized Docker for containerized application deployments**, enabling efficient scaling and streamlined DevOps workflows.
- **Implemented authentication and role-based access control (RBAC)**, securing sensitive financial and transaction data.
- **Managed version control using Git/GitHub**, performing peer **code reviews** and collaborating in an **Agile development environment**.

SimplyPHP, Canada —*Software Engineer (Full Stack Laravel/PHP &.NET C#)*

Mar 2021 – Feb 2024

- **Developed and maintained .NET Core and Angular** applications, microservices, and APIs for diverse platforms, including rental platforms, CRM systems, banking applications, and engineering monitoring tools.
- **Led back-end development** efforts using **PHP (Laravel) and .NET C#**, ensuring clean, maintainable, and scalable code following **MVC design patterns**.
- **Refactored backend infrastructure**, optimizing **SQL database** performance by restructuring table relationships, improving query efficiency, and enhancing scalability.

- **Integrated third-party APIs** such as **Google Maps, Stripe**, and other services into **Vue, Angular, and React** front-end applications, ensuring seamless interaction between systems.
- **Implemented authentication solutions**, including **Single Sign-On (SSO) and role-based access control (RBAC)** for user roles (user, admin, super-admin).
- **Worked in an Agile development environment**, participating in daily stand-ups, sprint planning, and peer **code reviews** to improve collaboration and maintain high coding standards.
- **Containerized applications** using **Docker**, improving portability and deployment efficiency across multiple environments.
- **Enhanced DevOps processes**, contributing to CI/CD pipelines, automated deployments, and environment setup on **Google Cloud Platform (GCP)**.
- **Developed caching strategies** using **Redis** to optimize web application performance and reduce server load.
- **Wrote automated tests** using **Pest and other testing frameworks**, ensuring application reliability and reducing regression issues.
- **Used Git/GitHub for version control**, managing repositories, pull requests, and collaboration within development teams.
- **Communicated with stakeholders** to gather requirements, define project scope, and provide technical insights on application development.

QodeLogix, Canada — *Software Engineer Lead*

Mar 2019 – Mar 2021

- **Led a team of developers** in designing and implementing a **ride-sharing and driver task allocation platform** for car dealerships across Canada/USA, ensuring scalability and performance.
- **Architected and developed backend services** using **Laravel PHP and Node.js**, implementing **RESTful APIs** to facilitate seamless communication between mobile apps and web platforms.
- **Designed and optimized database structures** using **MongoDB (NoSQL) and Firebase**, ensuring efficient data storage, retrieval, and real-time updates for vehicle tracking.
- **Integrated Google APIs** (Directions, Distance Matrix) for **route optimization and real-time GPS tracking**, improving driver efficiency and reducing travel time.
- **Developed an in-house pooling algorithm to optimize multi-passenger trip assignments**, significantly improving vehicle utilization and reducing operational costs
- **Developed intelligent task allocation algorithms**, matching available drivers with tasks based on ETA, location, and priority, improving fleet utilization.
- **Implemented caching strategies** with **Redis** to optimize API response times and reduce database load.
- **Built and deployed machine learning models** to enhance driver departure and arrival estimations, increasing prediction accuracy.
- **Managed DevOps workflows**, utilizing **Docker** for containerized deployments, **CI/CD pipelines (CircleCI, GitHub Actions)** for automated testing, and **Google Cloud Platform (GCP)** for infrastructure hosting.
- **Conducted peer code reviews**, mentored junior developers, and ensured adherence to best coding practices following **Agile methodologies**.

Canadian Tire Corporation, Canada — *Business Analyst*

Apr 2018 – Dec 2018

- Spearheaded the implementation of the **"Delivery to Home"** initiative for both parcel and bulk shipments, streamlining logistics workflows across national operations.
- Designed and updated business process models using flowcharts and BPM tools, aligning legacy processes with new delivery systems to ensure operational consistency.
- Conducted stakeholder interviews and facilitated presentations to gather business requirements, identify process gaps, and communicate findings to technical teams.
- Translated stakeholder feedback into detailed documentation to support developers in implementing system enhancements and resolving operational pain points.
- Developed **SQL Server Integration Services (SSIS)** packages to automate the migration of Excel-based operational data into a **SQL Server** environment, improving data integrity and reducing manual effort.
- Initiated and built a custom **Python** application for daily bulk shipment data processing. The application details is listed below:
  - Extracts operational data via APIs and web scraping,
  - Categorizes bulk shipments into statuses (e.g., New, Booking, Completed, Monitoring, Cancelled, etc.),
  - Applies **machine learning classification** to free-text logs from admins and drivers, identifying communication issues and prioritizing action items.
  - Result: Enabled rapid identification of critical shipment issues, reduced manual reporting time, and improved delivery reliability through data-driven insights.

Zita Associates Inc, Canada — *Full Stack Software Developer*
Jul 2015 - Oct 2017

- Developing C# web application (Purchase app, Registration App), that store Data is SQL Server.
- Web Application Architecture and Design.
- Developed Dynamic WebForm application in C#.
- Developed a Query Script for SQL Server to Remove FILESTREAM.
- Developed a HttpModule in C#.
- Developed a Website, CSS, Javascript.

EDUCATION

Brock University, Canada — *Bsc Computer Science (Honours)*
Sept 2013 - Dec 2015
Graduated with a 3.0 GPA.
Sheridan College, Canada — *CST:Software Development & Net Eng*
Sept 2009 - Dec 2012,
Graduated with a 3.7 GPA.

AWARDS
2015: Placed in the Top 5 for the Capstone Project Competition at Sheridan College.
2012: Queen Elizabeth Scholarship for Highest Academic Achievement in Final Year of Secondary School.
2012: Awarded Highest Academic Achievement in Mathematics.

SKILLS

Programming Languages: C#, Python, JavaScript, PHP, Laravel, Vue.js, .NET Core, Java, C/C++, SQL

Frameworks & Design Patterns: Strategy, Singleton, Prototype, Repository, Service, Factory, Lazy Initialization

Databases: MS SQL Server, MySQL

Web Technologies: HTML/CSS, Bootstrap, Less, jQuery, Angular, React

API Integrations: Google APIs (Maps, Directions, Distance Matrix), Stripe, Firebase

Software Development Tools: Git, Docker, AWS, Jira, Visual Studio

Testing: Pest, Unit Testing, Selenium, Manual Testing