Alvin Jorrel Pascual

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Summary

Senior Software Engineer and technical leader with 11 years of experience specializing in .NET and building high-performing, maintainable systems. I thrive on leading complex architectural initiatives, from strategically consolidating microservices into a streamlined .NET monolith to migrating critical identity providers to modern platforms like Clerk. My focus is always on enhancing system performance while reducing operational overhead.

Recently, I've championed a major leap in developer productivity by pioneering the integration of AI-powered tools like GitHub Copilot, cutting feature development cycles from weeks to days. I'm passionate about fostering a culture of quality, which I've driven by implementing comprehensive unit and integration testing strategies and taking formal ownership of code quality for core APIs. Ultimately, I love building efficient systems and empowering development teams with the optimized tools and processes they need to succeed.

Technical Skills

- **Languages & Frameworks:** C#, .NET (Framework, .NET 6+, MAUI), ASP.NET (MVC, Web API), TypeScript, Angular, Vue.js
- **Architecture & DevOps:** Microservices, Docker, Kubernetes, Azure DevOps CI/CD, Event Modelling, CI/CD Pipelines
- **Databases & Data:**stgreSQL, SQL Server, MySQL, Dapper, ETL
- Scripting, T-SQL
  PPrinciples & Methodologies:SOLID Design, Domain-Driven Design (DDD), Test-Driven Development (TDD), Agile/Scrum/Kanban

Professional Experience

Senior Software Developer | Provision Analytics | Calgary, AB
March 2023 – Present
- Architected and led major backend modernizations, including consolidating 11 microservices into a .NET monolith and migrating the Identity Provider to Clerk, which enhanced performance and eliminated maintenance overhead.
- Pioneered the integration of AI-powered tools (GitHub Copilot) and automated PR reviews, cutting feature development cycles from weeks to days and elevating code quality standards across the team.
- Championed a culture of quality by implementing comprehensive testing strategies, including both unit (2,000+ tests) and integration testing, and assuming formal code ownership of the core API.
- Optimized the end-to-end development lifecycle by containerizing 15 applications with Docker and overhauling the local environment, accelerating new developer onboarding from days to hours.

Senior Software Engineer | Symend | Calgary, AB
March 2022 – March 2023
- Architected and implemented a multi-branch tree structure within the core Campaign microservice (.NET), enabling complex, non-linear customer journey modeling for key enterprise clients.
- Dramatically improved API performance by designing and implementing a multi-level caching strategy, which significantly reduced latency on frequently accessed data.
- Enhanced development lifecycle and test reliability by creating a new integration testing framework using disposable Docker containers, leading to more consistent and faster builds.
- Led targeted research spikes to de-risk new technologies, driving the successful adoption of new production libraries and informing key architectural decisions for the team.

Senior Software Developer | PurelyHR | Dieppe, NB
April 2021 – March 2022
- Architected and initiated the migration from a monolithic application to a microservice-based architecture, utilizing Docker and Kubernetes for containerized deployment.
- Led the development of a cross-platform mobile application (Android/iOS) using .NET MAUI, successfully transitioning from Ionic to leverage existing C# expertise.
- Championed the adoption of SOLID and Domain-Driven Design (DDD) principles, enhancing code maintainability and establishing best practices for the team.

Software Engineer | thirdstream | Lethbridge, AB
September 2018 – March 2021
- Led the production release of 5 custom digital account onboarding implementations and developed 3 new central APIs for key financial services clients.
- Onboarded and coached 5 new developers, fostering their independence and productivity within the first three months.

Software Developer | Purdys Chocolatier | Vancouver, BC
September 2015 – September 2018
- Architected and implemented a full CI/CD pipeline (JIRA -> BitBucket -> VSTS -> Octopus Deploy) for .NET applications, significantly reducing deployment time and manual errors.
- Successfully migrated all customer and order data to a new eCommerce platform (Aptos), utilizing automated ETL scripting to ensure 100% data integrity.

Previous Experience

- **Software Developer** | Civica Infrastructure Inc. | Vaughan, ON *(Dec 2014 - Apr 2015)*
- **Information Technology Specialist** | Crosslink Technology Inc. | Mississauga, ON *(Mar 2014 - Nov 2014)*
- **IT Analyst (Co-op)** | Milton Hydro Distribution Inc. | Milton, ON *(Apr 2013 - Dec 2013)*
- **Technical Systems Analyst (Co-op)** | RBC | Toronto, ON *(Jan 2012 - Dec 2012)*