

Charles Lui

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US Citizen in Vancouver, WA

Education

- B.S. in Computer Science from Oregon State University in OR Status - Graduated

Work History

Software Engineer at Eleven Software, OR

Nov 2014 to Nov 2025

- Developed and maintained features for a Wi-Fi management SaaS platform using C#, .NET Core, and Object-Oriented Programming (OOP), enabling users to seamlessly configure network settings per hospitality property.
- Designed and developed RESTful API endpoints using Python and Swagger, enabling customers to seamlessly extract and analyze critical reporting data.
- Modernized legacy ASP.NET and .NET Framework monoliths into scalable microservices using Amazon Web Services (AWS), Docker, and Infrastructure as Code (IAC), driving significant gains in application performance and system stability.
- Accelerated application speed and data reliability by writing, debugging, and tuning database queries, indexes, views, and stored procedures in SQL environments.
- Developed and integrated full stack and frontend features using TypeScript, JavaScript, HTML, and CSS, connecting to backend APIs to deliver high-quality user experiences.
- Leveraged AI developer tools including GitHub Copilot, ChatGPT, and Claude models to streamline code generation, bug resolution, and accelerate technical documentation drafting.
- Collaborated cross-functionally with Product, UI/UX, QA, and Customer Support teams using Agile, Jira and Git, aligning technical execution to meet critical release deadlines.
- Applied Test-Driven Development (TDD) principles to write robust unit tests, integration tests, and smoke tests, ensuring issue-free deployments and stable production software releases.
- Architected maintainable software solutions leveraging Command Query Responsibility Segregation (CQRS), Dependency Injection (DI), and asynchronous & event-driven systems to enforce design best practices across core services.
- Enhanced application observability by utilizing structured JSON logging alongside Datadog, Grafana, and CloudWatch, accelerating incident troubleshooting and root-cause analysis.