

Amelia Chen

Software Engineer

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SUMMARY

A driven Software Engineer with 4 years of experience focusing on backend development in Rust and Python. Possesses a strong understanding of systems programming, memory safety, and building high-performance, concurrent services. Passionate about open-source contribution and applying formal methods to ensure code correctness.

STRENGTHS

Rust Programming: Proficient in leveraging Rust's features for safety, concurrency, and performance.

Systems Design: Enjoys designing and implementing the low-level details of complex systems.

API Development: Builds clean, well-documented, and efficient APIs for internal and external consumers.

Continuous Learning: Actively stays up-to-date with emerging technologies and programming language theory.

TECHNICAL SKILLS

Languages: Rust (Expert), Python, C++, SQL

Frameworks & Libraries: Tokio, Actix, Serde, FastAPI

Cloud & DevOps: GCP, Docker, Kubernetes, Git

Databases: PostgreSQL, ScyllaDB

Concepts: Concurrency, Memory Management, Formal Verification, API Design

PROFESSIONAL EXPERIENCE

Software Engineer | Hubspot | July 2021 - Present

Develops high-performance backend microservices in Rust to support the marketing automation platform.

Contributes to the team's open-source Rust libraries, used by the wider community.

Writes extensive tests and benchmarks to ensure the performance and correctness of critical code paths.

Collaborates with other teams to integrate new services into the existing infrastructure.

Junior Software Engineer | Wayfair | June 2020 - July 2021

Assisted in the development of backend services using Python and PHP.

Gained experience with large-scale e-commerce systems and database management.

Participated in an agile team, contributing to sprint planning and retrospectives.

EDUCATION

Bachelor of Science in Computer Science and Mathematics | Massachusetts Institute of Technology (MIT) | 2016 - 2020