

MARTIN BARKER

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Education

Oregon State University

B.S. in Applied Computer Science

Corvallis, OR

2015 – 2019

- Studied distributed systems, Java services, scalable architectures, cloud computing, and software reliability.

Experience

Allen Institute

Software Developer III — Technical Lead, Distributed Systems

Seattle, WA

Nov 2024 – Present

- Led development of **Rhapsō**, a distributed cloud-scale platform inspired by Java BigStitcherSpark; delivered full lifecycle from initial architecture through open-source release.
- Designed scalable REST services, caching layers, and containerized workloads (**Docker**, **AWS**) supporting petabyte-scale pipelines.
- Converted Java-based algorithms into modern, modular Python services while simplifying API boundaries for internal consumers.
- Defined and tracked **OKRs**, **SLAs**, and **performance KPIs**; guided engineers through profiling, testing, and observability improvements.
- Provided mentorship, drove code quality standards, and supported cross-functional planning with product and research teams.
- Led cross-team architectural reviews and established coding standards that improved reliability, velocity, and technical cohesion across the organization.
- Drove alignment between engineering, product, and research teams through clear communication of constraints, tradeoffs, and technical strategy.

Philips Ultrasound

Senior DevOps / Software Engineer — Global Platform Tooling

Bothell, WA

Feb 2022 – May 2024

- Supported a global developer organization by maintaining HIPAA-compliant infrastructure, CI/CD pipelines, and distributed testing systems.
- Built internal tools and services using **Java**, **C#**, **Python**, and **JavaScript** to automate workflows and increase platform reliability.
- Engineered a **117k+** work item migration from IBM RTC to Azure DevOps using Microsoft APIs, ensuring data integrity and audit readiness.
- Owned SLA enforcement for uptime, job stability, and workflow throughput, implementing dashboards and failure analysis loops.
- Promoted modernization via containerization, automated tests, and improved system resiliency.

Bungee Tech

Full-Stack Engineer — Data Platform & ETL Pipelines

Seattle, WA

Jan 2020 – Aug 2021

- Delivered customer dashboards and internal tools using **React**, **Node.js**, **Python**, supporting global retail data analytics.
- Maintained high-frequency ETL pipelines and JavaScript data scrapers; upheld strict **SLA** requirements for data freshness.
- Improved system reliability and latency using metrics-driven tuning, caching strategies, and async processing.
- Partnered with product and account teams to align engineering execution with business goals and customer impact.

MoxiWorks

QA Engineer — Automation & Testing Infrastructure

Seattle, WA

2019

- Built UI/API automation pipelines (Jenkins, Groovy, JS) supporting high-quality releases across distributed systems.
- Collaborated with engineers to improve testing coverage, rollout safety, and reliability.

Zume Inc.

Software Engineer — Full-Stack

Seattle, WA

Nov 2019 – Jan 2020

- Implemented React and Node.js features supporting operational workflows during rapid product scaling.
- Contributed to architectural discussions on scalability, service boundaries, and performance.

Selected Projects

Rhapsō — Distributed cloud service; REST API, scalable workers, AWS-based compute pipeline. Migrated core logic from Java to Python.

Retail Analytics Platform — React dashboards and ETL workflows with global SLA enforcement.

Azure DevOps Migration — Automated transfer of 117k+ work items via Microsoft APIs.

Technical Skills

Languages: Java, Python, JavaScript/TypeScript, C#, SQL

Backend: Microservices, REST, gRPC familiarity, caching, distributed processing

Frontend: React, Next.js, component systems

Cloud/DevOps: AWS, Docker, CI/CD (GitHub Actions, Jenkins), monitoring

Leadership: OKRs, SLAs, cross-team planning, mentoring, code quality standards

AI Tools: GitHub Copilot, ChatGPT, Claude