

## PROFESSIONAL SUMMARY

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Senior backend engineer architecting mission-critical trading systems managing \$170B in assets, processing 5M+ daily transactions at 99.9% uptime. 6+ years building distributed systems with Go, Java, Kubernetes, and gRPC, scaling services from 10 to 1,500 RPS. Pioneered applied AI tooling and process standardization transformation impacting 2000+ employees across 8 companies while maintaining critical financial infrastructure.

## EXPERIENCE

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- **Software Engineer II** **Apex Fintech Solutions**  
*September 2023 - Present*  
*AI Innovation Lead & Backend Software Engineer*
  - Pioneered company-wide AI transformation impacting 2000+ employees across 8 portfolio companies. Developed Jira-to-PR automation workflow reducing ticket-to-code time by 60%. Partnered with product teams to define structured AI readable ticket standards that reduced spec creation time by 30%, delivered technical talks to 400+ developers, increasing team velocity from 80 to 100 points per sprint.
  - Designed, built, and scaled new critical trade booking service securing firm's largest customer on our modern platform. Achieved 150x performance improvement (10→1,500 RPS) while maintaining 99.9% uptime, directly enabling new business growth.
  - Serve as primary incident commander during bi-monthly 24x7 on-call rotations, leading rapid recovery efforts for production issues affecting 150k+ trades with zero client impact. Recognized for reliability and technical expertise in crisis management, helping achieve our four nines uptime.
  - Maintain legacy trading platform (Java/MongoDB) serving majority of clients while leading development on cloud-native microservices rewrite (Go/gRPC/Kubernetes) with Istio service mesh for TLS authentication and intelligent load balancing. Process trades from multiple protocols (gRPC, FIX, CSV) for \$170B AUM platform.
  - Lead bi-monthly AI workshops and individualized pair programming sessions for 10+ cross-functional team members.
- **Software Engineer III** **Workday**  
*October 2021 - March 2023*  
*Distributed Systems Developer*
  - Owned two customer-facing services on Workday Extend Platform with strict 99.9% availability and security requirements, optimizing for computational efficiency under demanding load using Kotlin, Scala, and Ktor frameworks.
  - Led infrastructure modernization with Terraform and AWS ECS, reducing deployment time from 60 to 30 minutes, enabling twice as many daily deployments. Expanded monitoring coverage and simplified CloudWatch logging across all services.
  - Volunteered as Scrum Master for 9 months while maintaining full development responsibilities, fostering team collaboration and delivering 3 major features ahead of schedule. Contributed to greenfield gRPC project that modernized service architecture and improved system performance.
- **Software Engineer I-II** **Cvent**  
*May 2019 - July 2021*  
*Backend Developer*
  - Architected critical data normalization pipeline unifying disparate systems from acquired companies. Processed millions of real-time events (registrations, ticket scans, session tracking) with sub-100ms p99 latency using Kafka Streams.
  - Initiated and championed DevOps initiatives using AWS ECS, MSK, and CloudFormation to architect solutions and diagnose production issues. Improved system reliability through proactive monitoring and infrastructure automation.
  - Established documentation culture from zero baseline, creating comprehensive suite covering APIs, runbooks, and architecture. Expanded beyond backend role to deliver full-stack analytics solutions with React and JavaScript.

## EDUCATION

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- **Reed College**  
• *Bachelor of Science in Computer Science*

Portland, OR

## TECHNICAL SKILLS

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- **Languages:** Go , Java, Python, Kotlin, Scala, JavaScript/TypeScript
- **Backend & Distributed Systems:** Microservices, gRPC, protobuf, REST APIs, Kafka, PostgreSQL, MongoDB, Event-Driven Architecture, FIX Protocol
- **Scale & Performance:** Kubernetes, Istio Service Mesh, Docker, Load Balancing, \$170B AUM Platform, SLOs of 99.99% uptime
- **Cloud Platforms:** GCP (GKE, Cloud SQL, BigQuery, Vertex AI), AWS (ECS, MSK, CloudFormation), Terraform, Infrastructure as Code
- **AI/ML Tools:** Claude Code, Vertex AI, LLM Integration, MCP Development, AI Workflow Optimization, prompt chaining
- **DevOps & Collaboration Tools:** GitHub Actions, CI/CD pipeline, Datadog, Splunk, CloudWatch, Prometheus, Grafana, Jira, Confluence

## LEADERSHIP & ORGANIZATIONAL IMPACT

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- **AI Technical Evangelist & Recognized Expert**
  - Delivered company-wide keynote "Leveraging AI in Software Development" to 400+ engineers, subsequently shared across 8 portfolio companies (2000+ employees). Created accompanying documentation adopted as the organization-wide standard reference for AI development practices.
  - Built AI chatbots on custom internal platform, integrating 15+ cutting-edge models from Vertex AI with tailored business context. Developed internal tools achieving 600+ daily active users, establishing AI development standards adopted organization-wide.
  - Served as Scrum Master for 9 months leading 8-engineer team at Workday, maintaining 100% on-time delivery while handling full development responsibilities.
  - Lead regular "AI in Engineering" workshops for 10-person team. Onboarded and upskilled 2 junior engineers in distributed systems and Go best practices, accelerating their path to autonomous contribution.

## SIDE PROJECTS

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- **Permit Monitoring System (Go, gRPC, WhatsApp API)**
  - Developed high-throughput Go microservices monitoring Recreation.gov availability with high uptime on Raspberry Pi cluster. Achieves 5k+ lookups/sec against local SQLite cache with encrypted storage, implements intelligent rate limiting for external API calls, and delivers real-time WhatsApp notifications via whatsmeow integration.
  - Engineered custom blue-green deployment pipeline with Mac-based development, ARM64 cross-compilation, automated DockerHub deployment, SSH-based orchestration, comprehensive health monitoring, and automatic rollback capabilities. Production system enables automated permit availability notifications with 39+ test cases ensuring reliability.
- **Home Lab Infrastructure:** Kubernetes cluster on a Raspberry Pi 4s orchestrating network-wide ad blocking, media servers, and web apps. Custom CI/CD pipelines enable rapid iteration and deployment while maintaining home network stability.

## PERSONAL INTERESTS

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- **Outdoor Adventures:** Backcountry expedition leader - organize and guide 4-8 person groups on wilderness backpacking and canoeing trips (up to 6 days), solo backcountry explorer, endurance cyclist, Ultimate Frisbee team captain, surfer
- **Community & Hobbies:** Regular blood donor (20+ lifetime donations), Ultimate (frisbee) captain and player, avid bagel maker and home chef, film and digital photography