

Eshan Arora

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EDUCATION

University of Washington – Seattle

Seattle, WA

B.S. Computer Science, Linguistics

Expected Graduation: June 2027

GPA: 3.94/4.0

Courses: Distributed Systems (Java), Systems (C/C++, Linux), Databases, Machine Learning, Operating Systems, Data Centers (Go, Docker, Kubernetes), Functional Programming (OCaml, Ruby), Compilers

EXPERIENCE

Software Engineering Intern — ATOMS

Incoming Summer 2026

- Joining the Infra Platform Coordination team to build core distributed systems (exclusive ownership, reliable messaging, durable execution) in Go used across all product teams

Software Engineering Intern — AT&T

June 2025 – August 2025

- Developed full-stack features for a workforce scheduling platform serving 20,000+ field technicians, building React/TypeScript UI components and MySQL-backed REST APIs for complex scheduling logic
- Reduced frontend rendering latency by 50% and fixed critical UI bugs by refactoring inefficient React components
- Eliminated synchronization bugs and halved development time on core pages by consolidating duplicated logic and enforcing strict type-driven design
- Optimized SQL queries and implemented caching layer for scheduling APIs under high loads, while ensuring 100% unit test coverage
- Created onboarding documentation and mentored a new hire through their ramp-up

Volunteer Software Developer — Washington Yacht Club

Oct 2025 – Present

- Designing and building a full-stack membership management system to replace a 15-year-old club database, implementing authentication, privileges, and admin tools for 100+ members
- Reduced membership processing time by 10x each quarter by replacing manual SQL operations with a guided batch workflow featuring CSV parsing, duplicate detection, and automated emails
- Audited and remediated 25,000 production records, resolving data integrity issues across 50+ interconnected tables in a complex legacy schema
- Streamlined core administrative workflows (lesson creation, sailboat ratings, enrollment lookups) through optimistic UI updates, real-time search and filtering for 20+ power users
- Maintaining production web infrastructure serving 6,600+ monthly visitors, managing hosting and deployment across DreamHost and Vercel

Teaching Assistant — Programming Languages

Jan 2026 – Present

- Assisting in teaching programming language theory and functional programming to a class of 40+ students
- Collaborated on 3-person teaching team to grade challenging assignments in OCaml, Scheme, and Ruby

PROJECTS

Welp | *Distributed Restaurant Microservice*

Sept 2025 - Dec 2025

- Engineered cloud-native restaurant microservice in Go benchmarking 10,000+ requests/sec
- Implemented LRU/LFU caching algorithms achieving 55% hit rate and 80% latency reduction (vs. naive approach)
- Designed custom dynamic load balancer utilizing real-time pod health metrics for fault-tolerance
- Deployed 12+ services in containerized architecture on Kubernetes using gRPC
- Reduced P90 latency by 66% and queueing delays from 40% → 10% through load testing and statistical performance analysis to identify bottlenecks

Sentinel II | *Agentic AI Cybersecurity Solution*

June 2025 – August 2025

- Built an AI agent using reinforcement learning (Q-learning) to identify vulnerabilities in AT&T's network
- Implemented network graph visualizations in Python and trained with the OpenAI Gymnasium RL library
- Placed 1st regionally and 2nd nationally out of 15 teams in the Intern Innovation Challenge

TECHNICAL SKILLS

Languages: TypeScript, Go, C++, Java, Python, SQL, Bash, OCaml

Frameworks: React, Node.js, TanStack Start, PyTorch, TensorFlow

Developer Tools: Git, Docker, Kubernetes, Linux