

# DAVID YOUN

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## Professional Summary

Backend Software Engineer with 3 years of experience building and operating distributed, high-throughput backend systems at Amazon and healthcare technology companies. Experienced in Java, Python, and RESTful APIs, supporting critical services, large-scale data processing, and production environments. Proven ability to ship reliable systems, improve performance, and collaborate cross-functionally across various environments.

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## Technical Skills

- **Programming Languages:** Java, Python, SQL, JavaScript, TypeScript, HTML
  - **Frameworks & Tools:** Spring Boot, Git, AWS (CloudWatch, Lambda, S3), Ruby on Rails, Linux
  - **Database Systems:** MongoDB, MySQL, DynamoDB
  - **Other:** Object-Oriented Design, Distributed Systems, API Design, CI/CD, SDLC, E2E Testing
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## Professional Experience

**ActX** — *Software Engineer*

Feb 2025 – Nov 2025 | Seattle, WA

- Delivered **20+ production backend and full-stack features** across a **Java (Spring) backend, Ruby on Rails frontend, and MongoDB** architecture supporting customer-facing healthcare applications.
- Designed and implemented **RESTful APIs** integrating with third-party **Electronic Health Record (EHR)** systems, enabling **real-time clinical data exchange** across multiple healthcare partners.
- Led modernization of legacy Rails applications by upgrading **Ruby 1.9 to 2.7**, removing deprecated dependencies and reducing build warnings by **70%+**, improving long-term maintainability.
- Partnered with geneticists and domain experts to design backend workflow tools that **automated manual bioinformatics processes**, reducing analysis turnaround time and operational overhead.
- Built Python-based data processing jobs to **backfill and validate 50M+ patient records**, improving data completeness and enabling downstream analytics.

**Amazon Web Services (AWS)** — *Software Development Engineer*

Aug 2022 – Feb 2024 | Seattle, WA

- Designed and shipped **distributed REST APIs** supporting **cross-region replication** for large-scale AWS services, improving system resilience across multiple high-traffic regions.
- Built and maintained **real-time monitoring dashboards** for APIs handling **100K+ requests per minute**, enabling rapid anomaly detection and supporting a **99.9% availability SLA**.
- Improved system performance and reliability by optimizing **Elasticsearch client usage**, implementing retry logic, and addressing core bottlenecks that reduced error rates under peak load.
- Participated in a **24/7 on-call rotation** for Tier 1 and Tier 2 services, performing **root cause analysis**, writing incident reports, and deploying production fixes for customer-impacting issues.

**Amazon Web Services (AWS)** — *Software Development Engineer Intern*

Jun 2021 – Sep 2021 | Remote

- Developed a backend API to collect, store, and query historical user data in **Amazon S3**, improving data accessibility and reducing retrieval latency.
  - Authored internal technical documentation supporting onboarding and long-term maintainability.
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## Education

**University of California, San Diego** — *B.S. Computer Science*

June 2022

- GPA: 3.76/4.0