

AKSHAI NARAYAN SRINIVASAN

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Education

University of Washington

Seattle, WA

Dual Degree: BS in Computer Science and Engineering, BS in Applied Mathematics

June 2027

Relevant Coursework: Machine Learning, Systems Programming, Data Structures & Parallelism, Hardware Software Interface, Discrete Mathematics & Probability, Multivariable Calculus, Applied Linear Algebra, Differential Equations

Technical Skills

Languages: Python, Java, C++, JavaScript, TypeScript, Dart

Databases & Cloud: PostgreSQL, MongoDB, MySQL, AWS (Lambda, API Gateway, S3, DynamoDB, Bedrock)

Frameworks & Tools: Node.js, FastAPI, Flask, React.js, Next.js, Flutter, Stanford CoreNLP, Git

Experience

DubHacks

Seattle, WA

Software Developer

Jan 2025 – Present

- Developing full-stack software for the **largest collegiate hackathon in the Pacific Northwest (1200+ hackers/judges)** using **FastAPI, Next.js, TypeScript, and React**
- Built **FastAPI** judging platform with **OAuth2** infrastructure, utilizing **WebSockets** and **event-driven architecture** to achieve **<100 ms** tracking for **150+** live sessions
- Architected production **MongoDB** cluster handling **376K** edge requests and **122K** serverless function **invocations** for peak hackathon traffic with **zero downtime**
- Designed **sentiment analysis engine** with proprietary **ranking algorithm** to evaluate **1,800+** applications, achieving **99% reduction in manual review time**

Technology Consulting Association at the UW

Seattle, WA

Co-Founder and President

Jan 2025 – Present

- Founded and leading a **40+ member** student organization to deliver **AI-driven tech solutions** for businesses
- Built pipeline of **6 active client projects within 3 months**, including **computer vision analytics** for regional bagel chain and **cloud infrastructure migration** for municipal fire department
- Developed **agentic AI** outreach bot that utilizes the **Anthropic/Claude API** to discover and initiate **first-level sales funnel contact** with potential clients (**2000+ leads**)
- Established strategic partnerships and client relations with **Pinterest, SAP, Accenture**, and the **Seattle Mariners**

Neptune Medical Inc.

Burlingame, CA

Software Engineering Intern

Jun 2025 – Sep 2025

- Engineered **control system architecture** for **robotic endoscope** using **ROS** and **Python**, orchestrating communication between controllers, sensors, and actuators
- Built **C++ fault detection framework** for **haptic input device** with automatic failsafe protocols, preventing **unsafe robot operations** during live procedures
- Collaborated across engineering teams using **Agile/Scrum** workflows, maintaining sprint documentation in **JIRA** and technical specs in **Confluence**

Sample Projects (Portfolio: akshaisrin.live)

FitFinder | PostgreSQL, Python, Flask, AWS (Bedrock, S3), Flutter, Dart, Git

Oct 2024

- Created mobile fashion social media app for Android devices designed to connect people with similar fashion tastes
- Designed **PostgreSQL** database with **indexing** and **query optimization** for low-latency content retrieval
- Implemented **Flask** backend using **RESTful APIs** to support content delivery and session management
- Used **AWS Bedrock** to create AI-powered style classifications and **AWS S3** to store **40,000+** image algorithm dataset

CalcMaestro.com | Python, AWS (Lambda, API Gateway, S3, DynamoDB), Git

Jan 2023

- Implemented calculus engine for calculus test-prep company able to perform **differentiation and integration symbolically**, generating **100,000+** practice problems with **step-by-step solutions**
- Architected serverless backend using **AWS Lambda** and **AWS API Gateway** to handle content requests, achieving low-latency PDF delivery from **AWS S3**
- Built **cross-domain authentication system** using **AWS DynamoDB** for secure content access through web tokens