

Shri Sanjay Kumar Selvakumar

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EDUCATION

Arizona State University

Master of Science in Computer Science

August 2024 – May 2025

Tempe, AZ

- Accelerated 3+1 Master's Program

Barrett, The Honors College at Arizona State University

Bachelor of Science in Computer Science

August 2021 – May 2024

Tempe, AZ

- **Awards:** 6x Dean's List, New American University – Provost's Award

GPA: 3.94/4.00

RELEVANT COURSEWORK

- Object-Oriented Programming
- Data Structures and Algorithms
- Distributed Software Development
- Cloud Computing
- Artificial Intelligence
- Machine Learning
- Project/Process/Quality Management
- Data Processing at Scale
- Operating Systems

EXPERIENCE

Loki (Startup)

Co-Founder/Lead Developer (Honors Thesis/Part-Time)

January 2024 – Present

Tempe, AZ

- Spearheaded backend infrastructure development of the Loki mobile application using **PostgreSQL**, **Docker**, **TypeORM**, and **TypeScript** to connect small businesses with consumers.
- Implemented **JWT authentication** and established coding standards for entities, routes, and controllers to enable efficient and secure client-server interactions for complex app features with **React Native** and **Axios**.
- Directed performance testing initiatives by simulating heavy load using **Postman** to measure backend robustness.
- Exploring **AWS** cloud computing solutions such as **S3**, **EC2**, **ELB**, and **CloudFront** for data storage, autoscaling, load balancing, content delivery networks, and deployment to support user base growth.

Lotus Addiction Therapy (Startup)

Software Developer (Capstone Project/Part-Time)

September 2023 – April 2024

Tempe, AZ

- Led integration of new subscription-based payment options and user roles into the platform to expand user accessibility and engagement using **React Native** and **TypeScript**.
- Conducted extensive testing across **iOS** and **Android** device simulators and performed **bug triage**, addressing **over 20** key functionality issues to improve app stability.
- Deployed mobile application to **App Store** and **Google Play** using **Expo**, **AWS Amplify**, and **AWS Elastic Beanstalk** while ensuring maintainability and compliance with privacy/security standards.
- Managed version control and code reviews from pull requests on **GitHub** to streamline development processes, maintain code quality, and foster collaboration across the five-member team.

Cognizant

Software Engineer Intern

June 2023 – August 2023

Boston, MA (Remote)

- Enhanced an internal **Selenium WebDriver** automation testing tool using **ASP.NET** and **C#** by resolving critical bugs and proposing features to facilitate workflow comparisons and optimize test run search filtering.
- Eliminated performance bottlenecks by reducing **SQL** query execution time by **over 90%** and redesigning the interface to simplify workflow management and boost operational efficiency across TriZetto CareAdvance teams.
- Integrated search functionality into another internal tool using **Angular**, **TypeScript**, and **Azure DevOps REST APIs** to improve user accessibility of test runs from manual testing and **CI/CD** pipelines.
- Actively participated in an **Agile** development environment and collaborated closely with cross-functional teams by contributing to daily standups and completing user stories and tasks via **Azure Kanban Boards** and **Git**.

PROJECTS

CSE 546 Cloud Computing | Python, Flask, FastAPI, Amazon Web Services

February 2024 – April 2024

- Engineered serverless architecture for **PaaS** video processing pipeline on **AWS Lambda** and deployed an elastic **IaaS** solution for image recognition with **AWS S3/SQS** and custom autoscaling of **AWS EC2** instances.
- Advanced technical proficiency in cloud computing by leveraging **AWS** for performance and resource management.

TECHNICAL SKILLS

Languages: Java, TypeScript, Python, C/C++/C#, SQL, HTML/CSS

Frameworks: React Native, Expo, Node.js, PostgreSQL, Angular, ASP.NET, MySQL, Flask, FastAPI

Developer Tools: Amazon Web Services, Visual Studio, Git, Github, Docker, Postman, Eclipse

Certifications: AWS Cloud Practitioner – August 2024