Shri Sanjay Kumar Selvakumar

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EDUCATION

Arizona State University — **August 2024 – May 2025**
Master of Science in Computer Science — *Tempe, AZ*
- Accelerated 3+1 Master's Program

Barrett, The Honors College at Arizona State University — **August 2021 – May 2024**
Bachelor of Science in Computer Science — *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 | Machine Learning | Artificial Intelligence | Data Processing at Scale | Project/Process/Quality Management

EXPERIENCE

Loki (Startup) — **January 2024 – June 2024**
Co-Founder/Lead Developer (Honors Thesis/Part-Time) — *Tempe, AZ*
- Engineered the backend infrastructure for the Loki mobile application with **PostgreSQL**, **Docker**, **TypeORM**, and **TypeScript**, tailored to features that satisfy the needs of small businesses and consumers.
- Led system design efforts for a scalable and reliable backend by establishing coding standards and best practices to **optimize database queries**, **reduce latency**, and ensure efficient data processing.
- Implemented **JWT authentication** for stateless session management and user authorization to maintain security and efficiency in client-server interactions with **React Native** and **Axios**.
- Directed performance testing initiatives by simulating heavy load and high traffic conditions using **Postman**.
- Explored and evaluated **Amazon S3**, **EC2**, and **ELB** for potential deployment, autoscaling, and load balancing strategies, preparing the platform for future production environments and user base expansion.

Lotus Addiction Therapy (Startup) — **September 2023 – April 2024**
Software Developer (Capstone Project/Part-Time) — *Tempe, AZ*
- Led the integration of new subscription-based payment options and user roles, **growing user accessibility and engagement by 25%** using **React Native**, **TypeScript**, and **PostgreSQL**.
- Conducted cross-platform testing on **iOS** and **Android** simulators, performing **bug triage** and resolving **over 20 key functionality issues** to enhance app stability and **reduce crash rates by over 70%**.
- Deployed the mobile application to the **App Store** and **Google Play** using **Expo**, **AWS Amplify**, and **AWS Elastic Beanstalk**, ensuring reliability and compliance with privacy/security standards.
- Managed version control and code reviews on **GitHub** to streamline development processes, maintain code quality, and foster collaboration across the **five-member team**.

Cognizant — **June 2023 – August 2023**
Software Engineer Intern — *Boston, MA (Remote)*
- Enhanced an internal **Selenium WebDriver** automation testing tool using **ASP.NET** and **C#**, addressing bugs and proposing features that optimized test run search filtering and **reduced test analysis time by over 50%**.
- Eliminated performance bottlenecks by **reducing SQL query execution time by over 90%**, redesigning the interface to simplify workflow management and boosting operational efficiency across TriZetto CareAdvance teams.
- Integrated advanced search functionality into an internal tool using **Angular**, **TypeScript**, and **Azure DevOps REST APIs**, enabling faster retrieval of test runs from manual testing and CI/CD pipelines.
- Actively contributed in an **Agile** development environment, collaborating with cross-functional teams, participating in daily standups, and completing user stories and tasks via **Azure Kanban Boards** and **Git**.

TECHNICAL SKILLS

Languages: Python, Java, TypeScript, C/C++/C#, SQL, Scala, Ruby, HTML/CSS, JavaScript, Shell Scripting
Frameworks & Libraries: Node.js, React.js, React Native, Expo, Angular, Ruby on Rails, .NET, Flask, FastAPI
Databases & Tools: PostgreSQL, MySQL, Redis, Postman, Git, Selenium, JUnit, VSCode, Visual Studio, Eclipse
Cloud & DevOps: Amazon Web Services (AWS), Microsoft Azure, Docker, Kubernetes, Apache Hadoop, Apache Spark

CERTIFICATIONS

Amazon Web Services Certified Cloud Practitioner — **August 2024**
Amazon Web Services Certified Solutions Architect - Associate — **Expected October 2024**