SAI DHARSHINI AKULA

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Education

George Mason University — **August 2022 – May 2024**
Master's in Computer Science, CGPA: 3.83/4.0 — *Fairfax, Virginia, USA*

Sreenidhi Institute of Science and Technology — **May 2017 – April 2021**
Bachelor of Technology in Computer Science, CGPA: 3.92/4.0 — *Hyderabad, Telangana, India*

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Component-based S/W
- SWE World Wide Web
- DBMS
- Operating Systems
- Software Testing
- Cloud Computing

Experience

Welkin Technologies LLC — **August 2024 – Present**
Software Developer Intern — *Remote, US*

- Collaborated with the team to design and build a web application as part of migrating to a new software stack, leveraging React for front-end development and microservices architecture to enhance scalability and performance.
- Contributed to seamless integration between front-end and back-end services, troubleshooting issues during migration and ensuring a smooth transition with minimal downtime.

Tata Consultancy Services — **September 2021 – November 2022**
Assistant Systems Engineer — *Hyderabad, India*

- Enhanced REST APIs and microservices on Google Cloud using Apigee, boosting performance and reducing downtime through streamlined deployments.
- Enforced effective debugging strategies, cutting issue resolution time by 25%, while collaborating with cross-functional teams to increase productivity.Provided technical support and training to TELIA clients, achieving a 95% client satisfaction rate.

Syoft — **September 2019 – August 2021**
Associate Software Engineer — *Hyderabad, India*

- Developed dynamic, user-friendly interfaces using React.js, improving user experience, and implemented scalable back-end services with the Spring framework, boosting application performance.
- Deployed applications on AWS (EC2, S3), reducing operational costs by 20%, and optimized storage with AWS RDS, decreasing retrieval time.
- Architected a microservices-based approach to ensure modularity and scalability, enhancing system scalability, and collaborated in an agile environment, engaging in sprint planning and daily stand-ups.

Projects

School Asset Management System | *MongoDB, Java, SQL, React, Express, Node.js* — **August 2024**

- Developed a MERN stack asset management system for schools, enabling admin users to track assets, view acquisition details, and monitor maintenance schedules.
- Implemented automated reminders for asset maintenance, ensuring timely actions through real-time alerts.
- Designed a responsive UI for seamless user experience and utilized Postman for thorough API testing and validation.

Prospective Student Survey Application Development | *Typescript, Java, SQL, Angular, Springboot* — **December 2023**

- Developed and deployed a multifunctional, full-stack web application integrating Angular, Spring Boot, and AWS (S3, EC2). The survey allows users to perform CRUD operations via Angular components and RESTful endpoints, enhancing user engagement.
- Incorporated MySQL with JPA and JDBC for efficient data handling, and used HTML, CSS, JavaScript, Ajax, and Bootstrap to improve user experience. Cookies enabled personalized greetings, boosting satisfaction.

4S Navigation tool extension in Visual Studio Code | *Java, Typescript, Javascript, VS code* — **November 2023**

- Developed and published the 4S Navigation Tool extension on Visual Studio Code, enhancing coding efficiency.
- Integrated Go to Definition functionality to improve code comprehension for complex tasks.
- Introduced Subword Search, enabling quick identification of elements within variable names and function calls.
- Streamlined access to solutions by integrating Stack Overflow Search directly into Visual Studio Code.

Technical Skills

Languages: Java, Python, C++, C, SQL, HTML5, CSS, JavaScript, Typescript, PHP.
Methodologies: DevOps, Agile, SOLID Principles, OOPS.
Frameworks & Libraries: Spring Boot, Bootstrap, Hibernate, Angular, React, jQuery, JUnit, Express.js, RESTful web services, AJAX, JSON, BDD, TDD. | **Version Control** : Git, JIRA.
Cloud Services: S3, EC2, API Gateway, Lambda, ECS/Fargate, DynamoDB.
Databases & Servers: Oracle, MySQL, PostgreSQL, MongoDB.
IDEs: Eclipse, NetBeans, Jupyter Notebook, WordPress, Android Studio, Visual Studio, Google Colab, Spring Tool Suite, Postman.
Others: SDLC, Kubernetes, Docker, Jenkins, Unix, Peer Code Reviews, Sprint Planning, and Team Collaboration.

Technical Certifications & Achievements

- **AWS Certified Developer - Associate** - AWS Lambda,DynamoDB, ECS, SQS. **(October 2024 – October 2027)**
- **Awards: Outstanding Academic Achievement Award** (MS in George Mason University, 2024)