Chaitra Boggaram

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Education

Santa Clara University — Jun 2024
Master of Science in Computer Engineering — GPA: 3.74
Relevant Coursework: Object-Oriented Design, Distributed Systems, Cloud Computing, Software Engineering

Bangalore University — May 2016
Bachelor of Computer Applications — GPA: 3.55
Relevant Coursework: Database Management, Computer Networks, Data Structures and Algorithms, Web Development

Professional Experience

Software Engineer, NXP Semiconductors - Bangalore, India — Jun 2020 - Jun 2022
- Created microservices with Java Spring Boot and deployed it onto AWS Elastic Kubernetes cluster improving 30% in availability with ~99.95% uptime, introduced auto scaling, and cost-effective resource utilization
- Developed an email click tracking system using Amazon SES, AWS API Gateway, Lambda functions, and S3 storage to capture and analyze click events, enabling data-driven insights for phishing campaign user engagement
- Collaborated with cross-functional agile teams to build CI/CD pipelines via AWS Code Pipeline to automate testing and deployment, resulting in 20% reduction in release cycle time
- Incorporated AWS CloudWatch for real-time monitoring and AWS Identity and Access Management for enhanced security and compliance for proactive alerting and achieved 25% reduction in security vulnerabilities

Application Engineer, Tata Consultancy Services - Bangalore, India — Dec 2016 - May 2020
- Developed Python scripts to invoke REST API for Splunk search queries to identify and block malicious URLs across multiple systems, reducing ~100 security threats per week and enabling real-time threat protection
- Created DAX (SQL) queries with Power BI to create interactive dashboards to provide real-time insights about inactive systems in Microsoft Defender, widely adopted by security team led to 10% increase in security compliance
- Implemented email notification system through Power Automate to alert users of identified vulnerabilities on remote machines and specified clear guidance on necessary actions to resolve, resulting in 80% reduction in security threats

Educational Experience

Graduate Teaching Assistant, Santa Clara University - Santa Clara, California — Jan 2023 - Present
- Automated grading process with Python scripts to download and analyze code from Git repositories, integrating Moss plagiarism detector across 200+ student submissions, ensuring academic integrity

Projects

Network-based Blockchain — Apr 2023 - Jun 2023
- The research project aims to improve blockchain technology by implementing Proof of Work on SmartNICs using multi-threading in C programming to enhance security and performance, targeting 5% increase in transaction throughput

Plagiarism Detector for ChatGPT — Jan 2023 - Mar 2023
- Led a team to create a Flask application using Python, HTML, and CSS for plagiarism detection, incorporating Machine Learning modules for accuracy, and invoked ChatGPT API completion for data comparison with 70% accuracy
- Published research paper at 8th International Conference on Computer and Information Science and Technology

Hack 4 Humanity - GiveForGood — Feb 2023 - Feb 2023
- Created full-stack application with ReactJS and Flask to connect food recipients with local donors and charities, integrated Google Auth for user authentication, Google Maps API for location pinpointing, and stored data using MySQL

ReferUp — Sep 2022 - Dec 2022
- Built referral website for SCU students and alumni with React.js, Django and Python, employing OAuth 2.0 for authentication, deployed on AWS EC2, AWS RDS to manage user data, and AWS SES to automate email communication

Skills

Languages & Application Development: Python, Java, C, C++, JavaScript, Flask, Django, React.js, Spring, Shell script
Cloud & Virtualization: Amazon Web Services, Microsoft Azure, Docker, Kubernetes, DevOps
Other Tools: Terraform, CloudFormation, Splunk, Agile, SDLC, Jira, Git, ServiceNow, MySQL, Linux, CI/CD, MongoDB