

Chaitra Boggaram

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EDUCATION

Santa Clara University, Santa Clara, CA

Jun 2024

Master of Science in Computer Science and Engineering (GPA: 3.57/4)

- Related Coursework: Cloud Computing, Computer Networks, Operating Systems, Algorithms
- Teaching Assistant: Computer Networks (Winter 2023) Research Assistant: Network-based Blockchain (Winter 2023)

Bangalore University, Bangalore, India

May 2016

Bachelor of Computer Applications (GPA: 3.55/4)

- Related Coursework: Data Structures, Object Oriented Programming, UNIX, Algorithms, Database Management

TECHNICAL SKILLS

Cloud & Virtualization: Amazon Web Services, Microsoft Azure, Docker, Kubernetes

Security: AWS IAM, Active Directory, AWS Security Hub, AWS GuardDuty, Microsoft Defender

Networking: Amazon VPC, Route 53, Load balancers

Application Development & Scripting: HTML, Django, Flask, C, Python, Bash, AWS Lambda

Monitoring: CloudTrail, CloudWatch, Azure Monitor

Databases & Storage: MySQL, MongoDB, RDS, DynamoDB, AWS S3

Infrastructure as Code: Terraform, CloudFormation, Ansible

Other Tools: Splunk, Agile, Jira, Git, ServiceNow, Amazon SES

PROFESSIONAL EXPERIENCE

Tata Consultancy Services, Bangalore, India

DevOps Engineer

Dec 2016 - Jun 2022

- Automated weekly reports for Endpoint Detection, Protection, and Response compliance using Macros and Power BI, resulting in time savings of ~10 hours per week, significantly improving client workflow and maintaining a 99% compliance rate.
- Led a team of 4 in successful migration of 40,000 on-premises clients from Symantec Endpoint Protection to Microsoft Defender for Endpoint, cloud-based antivirus solution, decreasing support SLA by 2 business days.
- Implemented automated email system through Power Automate to notify users of identified vulnerabilities on remote machines and provided clear guidance on necessary actions to resolve, resulting in 80% reduction in security threats.
- Created Azure Monitor dashboard through Terraform CDK that provides real-time visibility into Active Directory information, used Log Analytics workspace and metrics for triggering alerts based on predefined thresholds reducing customer tickets by 25%.
- Developed Python scripts using REST API to invoke Splunk search queries for identifying and blocking malicious URLs across multiple systems in NXP, reducing ~100 threats per week and provided real-time threat protection.

SELECTED PROJECTS

“Network-based Blockchain” (C, Bash Script)

Spring 2023

- Research project aims to improve security and performance of blockchain technology by implementing Proof of Work on SmartNICs with multi-threading at network layer, resulting in ~5% higher throughput in processing on-chain transactions.

“COT - Plagiarism Detector for ChatGPT” (Python, Flask, Scikit-learn, NLTK, ChatGPT API)

Winter 2023

- Designed application to provide intuitive user interface for plagiarism detection, incorporating ML algorithms through sklearn's TfidfVectorizer, Cosine similarity modules and invoked multiple ChatGPT API completion for data comparison with 70% accuracy.

“GiveForGood” - SCU Hackathon (Python, Flask, React.js, MySQL)

Winter 2023

- Created full-stack application in team of 5 aiming to connect people in need of food through local donors and charities, integrated Google Auth for user authentication and Google Maps API for pinpointing required locations.

“ReferUp” (Python, Django, React.js, OAuth 2.0, AWS EC2, AWS RDS, AWS SES, CloudWatch)

Fall 2022

- Implemented referral website for SCU students and alumni, implementing user authentication and hosting website in cloud infrastructure that maintained user database and automated email communication to referrers.

“Organ Donation Foundation” (PHP, HTML, CSS, Bootstrap)

Fall 2022

- Built website featuring awareness about organ donation, received ~100 registrations.

VOLUNTEERING

- Volunteered for Corporate Social Responsibility campaigns such as child education and women's safety, garbage yoga, donating ~1000 books to schools, food, and clothes for orphanages and old age homes by dedicating at least 4 hours per week.