Chaitra Boggaram

Santa Clara, CA | +1 669-292-8310 | chaitrabsarathy@gmail.com | linkedin.com/chaitraboggaram | github.com/chaitraboggaram

EDUCATION

Santa Clara University, Santa Clara, CA **Jun 2024**

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

- *Related Coursework:* Computer Networks, Operating Systems, Algorithms, Cloud Computing, Web Development
- *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

Programming and Development: Python, Java, C, C++, JavaScript, Django, Flask, React.js, HTML, CSS, Bootstrap, Bash, Golang
Cloud Computing: Amazon Web Services (AWS), Microsoft Azure, Docker, Kubernetes, Terraform, CDK
Data Management: MySQL, MongoDB, Microsoft SQL Server
Libraries and Frameworks: Scikit-learn, NLTK, Matplotlib, Pandas, NumPy
Tools: Git, OAuth, Splunk, Power BI, Power Automate

PROFESSIONAL EXPERIENCE

Tata Consultancy Services, Bangalore, India ***System 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)* **Winter 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, achieving ~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)* **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.