

Amith Kini Mattar

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Sponsorship required: Yes

SUMMARY

Adaptive and fast-paced software developer with 3 years of professional experience seeking full-time roles after May 2024.

EDUCATION

Texas A&M University, College Station, Texas

May 2024

Master of Computer Science; GPA: 3.83/4

Courses: Artificial Intelligence, Deep Learning, ML-based Cyberdefenses, Operating Systems

National Institute of Technology Karnataka, Surathkal, India

May 2019

Bachelor of Technology in Information Technology; GPA: 9.01/10

SKILLS SUMMARY

- **Programming Languages** : Python, C++, C, Rust, JavaScript, TypeScript, Ruby
- **Tools, Frameworks, Skills** : Linux, Docker, Git, Networking, MySQL, PyTorch, Numpy, Bash, Node.js, React, CUDA

EXPERIENCE

Arista Networks, Bengaluru, India

Jul 2019 - Jul 2022

Software Engineer

- Led and delivered time-sensitive feature requirements in Quality of Service (QoS) area catering to tier 1 network providers in Europe and ISPs in Australia.
- Designed and implemented Interface Policing and ACL-based policy-maps, increasing existing feature limit by 10 times.
- Collaborated regularly with Customer Support and Proof of Concept teams, resolving critical bugs and assisting with network topology and configurations.
- Organized and participated in hackathons, developing a CLI feature to add warnings for command execution, enhancing user awareness of potential command consequences.
- Mentored and onboarded new team members, providing guidance on work processes and tool usage.

Arista Networks, Bengaluru, India

May 2018 - Jul 2018

Software Engineer Intern

- Worked on Layer 2 Protocol Forwarding, requested by ISPs to bypass CPU for L2 Protocol packets over pseudowire tunnels.
- Implemented inter-process communication using C++ for hardware programming.
- Created unit and integration tests to prevent regressions.
- Developed a new method through scripting that transformed a 20-minute package maintenance task into a 2-minute process, significantly enhancing team efficiency.

YellowAnt, Bengaluru, India

May 2017 - Jul 2017

Software Developer Intern

- Contributed to the integration of new apps into YellowAnt's ChatOps platform.
- Utilized SDKs from Salesforce and Sentry to build applications, leveraging the Django framework for backend development.
- Conceived a Proof-of-Concept for natural language-based textual input in the chat application.

PROJECTS

- **CodeSecurely** : Developed a proof-of-concept website utilizing OpenAI's models, Codex and ChatGPT, to suggest code completions based on existing code and provide insights with code. Demonstrated Large Language Models' potential in identifying code vulnerabilities, indicating a vital role in future developments. Mar 2023
- **CyberAI** : Built a malware defense system employing XGBoost, and an automated malware generation system leveraging ChatGPT and obfuscation techniques. Mar 2023
- **Interface Policing** : Devised and led feature development for Arista's EOS network OS allowing users to assign hierarchical bandwidth rate limiters to interfaces. Sep 2021
- **Visual Question Answering** : Implemented and trained a deep learning model using CNN and RNN to enable the model to answer questions asked about input images. Mar 2018
- **Fooling DNN** : Created an adversarial image generator using genetic algorithms and CNN to fool existing trained deep learning models into identifying a noisy image as a valid image with high accuracy. Nov 2017

HONORS

- Won 2nd place in company-wide hackathon organized at Arista Networks.
- Executive member of Flying and Robotics Club, NITK.
- Secured a rank of 25 out of 150,000 students, Karnataka CET Engineering Entrance.