ANURAG GUMIDELLI

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EDUCATION

University of Massachusetts - Amherst　　　　　　　　　　　　　　　　**September 2019 - May 2023**
Bachelor's, Computer Science　　　　　　　　　　　　　　　　　　　　　　　　　　*GPA: 4*
- Graduated Summa Cum Laude (top 5% of graduating class)
- Relevant Courses: Computer Networks, Artificial Intelligence, Operating Systems, Web Programming
- Awards: Outstanding Undergraduate Course Assistant, Dean's List

PROFESSIONAL EXPERIENCE

Ciena　　　　　　　　　　　　　　　　　　　　　　　　　　**Burlington, MA, USA**
Software Engineer　　　　　　　　　　　　　　　　　　　　　　　*July 2023 - Present*
- Developing C/C++ software for packet processing using DPDK
- Led a 3 person team developing a server/client protocol for uploading real-time network statistics from the device
- Authored YANG models and associated client code exposing device configuration APIs to north bound netconf clients
- Designed and implemented network statistics for VIF (Virtual Interface) based network statistics, improving visibility of traffic for effective traffic management and troubleshooting for the network operator
- Experienced in socket programming, developing and debugging multi-threaded software programs, internet access technologies (IPv4, IPv6, PPPoE).
- Extended Hierarchical Quality of Service (HQOS) features to VPLS subscribers provisioned in the network

Amazon Web Services　　　　　　　　　　　　　　　　　　　　**Bellevue, WA, USA**
Software Development Engineer　　　　　　　　　　　　　　*September 2022 - December 2022*
- Developed software for extending capabilities of existing open source software packages to new languages for AWS SNS libraries, https://github.com/awslabs/amazon-sns-python-extended-client-lib
- Developed a dashboard to capture metrics on global usage of the open source library
- Developed the Boto3 and AWS JS SDK software package utilizing various AWS services like S3 and SQS

Juniper Networks　　　　　　　　　　　　　　　　　　　　　**Westford, MA, USA**
Software Engineer Intern　　　　　　　　　　　　　　　　　　*May 2022 - August 2022*
- Developed and tested software in C/C++ for an SD-WAN routing platform
- Worked on implementing a Customer Support tool to assist in debugging and assisting customers with devices deployed in the field
- Scripted various Application tests in C++ to give accurate reliability information of new software builds
- Developed multiple test APIs to mock real time behavior for the testing environment in the router

PROJECTS & OUTSIDE EXPERIENCE

Study Buddy (Java Script, HTML, CSS, Express.JS)
- Developed a web application for university students to find appropriate study groups to help with the classes
- Led the software development team and efforts by volunteering as the tech lead for the project
- Designed multiple RESTful APIs using Express.JS for CRUD operations to the MongoDB database
- Developed user profile page and search features for finding study groups

Network Protocols (Java, Python)
- Developed network communication protocols like TCP using UDP and BitTorrent protocol
- Achieved aggregate quickest runtimes competing against 120+ people to claim the 1st place
- Designed a multi-threaded network communication application optimized for the task of downloading small size data
- Implemented application using Java and Python Sockets package to run the communication between client and server

SKILLS

Skills: Git, Python, Java, C/C++, Helm, Kubernetes, Docker, yang, gRPC, netconf
Languages: Hindi, Telugu, English