cnikhil.vytla@gmail.com (669) 204-6198

EDUCATION

University of North Carolina at Chapel Hill

Aug 2018 - Dec 2021

B.S. Computer Science & B.S. Statistics and Analytics; GPA: 3.7

Chapel Hill, NC

- o Honors: Chancellor's Carolina Scholarship (full ride, academic merit), Honors Carolina
- Relevant Coursework: AI, Files and Databases, Algorithms and Analysis, Computer Organization, Data Structures, Computer Security, Bioalgorithms, Data Sci. for Earth, Linear Algebra, Probability

EXPERIENCE

Amazon Web Services (AWS)

May 2021 - Aug 2021

Software Development Engineer Intern - AMI Platforms

Seattle, WA

- Designed **OAuth-based protocol** for authenticating a new cloud service for RHEL on AWS consumers, democratizing secure, open-source developer education. (*Python, Java, TypeScript, AWS Lambda/KMS*)
- Authored 8-page accessibility reports/playbooks with actionable insights to improve EC2 web console experiences for developers with disabilities.
- Led new initiative for cloud accessibility across EC2 and AWS, presented updates on initial research at org-wide meetings to senior leadership, and published documentation on the design goals and approaches of #a11y.

Capital One May 2020 - Aug 2020

Software Engineering Intern - Enterprise Products & Platforms

McLean, VA

- Designed, created, and launched Turing REST API for secure real-time consumer (NPI/PCI) data tokenization currently supporting **peak 2.5M TPS w/ 10B operations/day**. (AWS S3/EMR, Docker, Lua, SQL)
- Engineered web app for internal token-based project development, improving auditing capabilities against insider security threats by 70% for 2500+ teams company-wide. (Angular, TypeScript)
- Trained and deployed scalable, multi-layer anomaly detection neural networks, increasing accuracy of error reporting for token-based development incidents by **2.1x**. (Amazon SageMaker, Python)

Fidelity Investments

May 2019 - Aug 2019

Software Engineering Intern - Personal Investing

Durham, NC

- Developed, tested, and deployed REST API for data metrics analyzing **30M**+ customers' daily transaction operations. (*Java, SQL, Postman, Jenkins*)
- Built analytics dashboard using the **Splunk API** to measure relative efficiency of high-throughput core transaction APIs vs. legacy APIs, optimizing pipeline oversight by **80%**. (*Elastic Stack, Splunk, Tableau*)

LEADERSHIP

CS+Social Good (github.com/cssgunc)

Aug 2018 - Present

Co-President

Chapel Hill, NC

• Lead a 40-person team and build web/mobile apps for local non-profits and student organizations that empower communities in areas like education, food security, sexual assault, mental health, and accessible tech.

HackNC (hacknc.com)

Aug 2018 - Present

Director of Sponsorship

Chapel Hill, NC

• Direct one of the largest hackathons for social good in the US. Currently spearhead initiatives for D&I, lead partnerships with minority-focused accelerators/funds, sponsors, and non-profits, and oversee \$50K+/year.

Projects

- <u>FloodGate</u>: Leveraged live, crowd-sourced text/location data for early flood warning and detection. (*Arduino/C*, Flask, Google Maps/GCP, Twilio API, Python) Best Use of Twilio Award, HackDuke 2019
- Onclass: Founded and led 501(c)(3) ed-tech non-profit since 2017. Created interactive educational tech for K-12 students across 20+ subjects, reaching 22K+ students in the US/India. (C#, Google Daydream, JS, Unity3D)

SKILLS

• Languages/Frameworks: Python, JavaScript, C/Lua, Java, SQL, R, HTML/CSS, React, Node.js, TensorFlow, Flask, TypeScript, Angular, Postgres, Arduino/C++, Flutter, React Native, Swift, Android Studio Technologies: Linux, AWS (EC2, S3, Lambda, KMS, CloudWatch), GCP, Git, Docker, Postman, Figma