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

EDUCATION

University of North Carolina at Chapel Hill

Aug 2018 - May 2021

B.S. Computer Science & B.S. Statistics and Analytics; GPA: 3.70

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

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)

University of North Carolina School of Medicine

July 2019 - May 2020

Machine Learning Research Assistant

Chapel Hill, NC

- Gait Biomechanics Lab: Spearheaded biomechanical vibration-based gait retraining device/app for chronic ankle instability under Dr. Kimmery Migel (funded by \$10K grant from UNC OUR/URCT). (*Poster*)

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/unc-cs-sg)

Aug 2018 - Present

Product Manager

Chapel Hill, NC

• Lead a 15-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 lead 501(c)(3) ed-tech non-profit since 2017. Designed and created custom, interactive educational tech for K-12 students across 20+ subjects (ex. VR lessons, collaborative online whiteboards, & reading proficiency apps), 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 (S3/EC2), GCP, Elastic Stack, Git, Docker, Postman, Jenkins, Figma/Adobe XD