nikhil-vytla.github.io | cnikhil.vytla@gmail.com (669) 204-6198 | linkedin.com/in/nikhil-vytla

FDUCATION

UNC - CHAPEL HILL

B.S. IN COMPUTER SCIENCE
B.S. IN STATISTICS AND ANALYTICS
Aug. 2018 - May 2021 (Expected)
Chapel Hill, NC
Chancellor's Carolina Scholar
(Merit-based Full-ride)
Honors Carolina
Cum. GPA: 3.7 / 4.0
Major GPA: 3.8 / 4.0

LYNBROOK HIGH SCHOOL

Grad. June 2018 | San Jose, CA Cum. GPA 4.4 / 4.0

LINKS

᠃: nikhil-vytla.github.io
 ᠃: github.com/nikhil-vytla
 in: linkedin.com/in/nikhil-vytla
 id: ACM Lab
 Live Projects:
 MedicAi
 Carolina Cupboard

COURSEWORK

UNDERGRADUATE

Completed:
Computer Organization
Data Structures
Discrete Structures
Linear Algebra
In Progress:
Artificial Intelligence
Algorithms and Analysis
Models of Lang, and Comp.

SKILLS

PROGRAMMING

Computer Security

Experienced:

Java • Python • JS/HTML/CSS • Git MATLAB • Ruby on Rails • Jenkins TensorFlow • Elastic Stack • SQL **Proficient:** React Native • Android • Flutter React.js • Node.js • C# • Agile

Currently Experimenting: C • Processing • Keras • R Languages (Fluent):

English • Spanish • Telugu

EXPERIENCE

DEPT. OF DEFENSE | Data Research Intern

Aug. 2019 - Present | Washington, D.C.

• Researching deep learning models using Python and Keras for the Dense Urban Environment Team (DUET) Megacity Project to analyze megacity data and map, model, and identify critical nodes for DoD operations.

UNC SCHOOL OF MEDICINE | ML RESEARCH ASSISTANT

Jul. 2019 - Present | Chapel Hill, NC

- Combining Mask R-CNN (Keras and TensorFlow) with novel tissue clearing and 3-D microscopy methods under Dr. Guorong Wu (ACM Lab) to visualize and identify cell segmentation in mice brains, attaining >92% accuracy.
- Optimizing and testing segmentation code in large audio-visual datasets and performing manual segmentation to generate network training data.

FIDELITY INVESTMENTS | SOFTWARE ENGINEERING INTERN

May 2019 - Aug. 2019 | Durham, NC

- Created Lightweight Container-based RESTful API using Java, Tableau, and SQL for data metrics tracking 30MM+ customers' transactions at 4-6 TPS.
- Developed analytics dashboard using **Splunk API** to measure efficiency of multiple high-throughput core APIs, optimizing pipeline by **80%**.
- Applied reinforcement learning w/**Keras** (DQN) to predict transaction behavior.

ONCLASS.ORG | Co-Founder & Director of Operations

Mar. 2017 - Present | San Jose, CA

- Developed interactive, user-driven web app with JS, HTML5, and CSS3 for 501(c)(3) K-12 educational technology nonprofit Onclass.
- Launched VR curriculum using **C#**, **Unity**, and **Google Daydream View** and implemented reading web app, online whiteboard, and video viewer with **JS**, increasing local school-district literacy rates by **70%**.
- 22,200+ unique students reached through physical and virtual tutoring partnerships with the City of San Jose and **Stanford d.school**.

SELECTED PROJECTS

OCRCC MOBILE APP | REACT NATIVE, ANDROID STUDIO

Jun. 2019 – Present

Currently developing a mobile **React Native** app for the Orange County Rape Crisis Center and sexual assault survivors as a **Project Manager** for CS+Social Good.

DEVMATCH | RUBY, JAVASCRIPT, HTML5, CSS3/SASS

Feb. 2018 - Sep. 2018

Built <u>DevMatch</u>, a responsive Software as a Service (SaaS) web app utilizing **Rails**, **Heroku**, **Bootstrap**, **AWS**, **PostgreSQL**, and the **Stripe API** to create a "freemium" multi-tier social network for developers and entrepreneurs.

ACTIVITIES & AWARDS

2019	International	Forbes U30 Scholar, X-Force Fellow, & Google DSC Lead
2019	Research Grant	Vibration-Based Gait Restraining Device (\$10,000)
2019	National	Director, HackNC & Director, Institute of Politics
2019	Finalist	Triangle Health Innovation Challenge (Top 5)
2018	Scholarship	Chancellor's Carolina Scholar (Top < 1% of all UNC students)