

# Nikhil Vytla

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## EDUCATION

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### Harvard T.H. Chan School of Public Health

Aug 2023 - Mar 2025 (Expected)

*S.M. Health Data Science*

*Boston, MA*

### 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*

- **Honors:** Chancellor's Carolina Scholarship (full ride, academic merit), Honors Carolina

## WORK EXPERIENCE

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### TruEra

Jan 2022 - Present

*ML Infrastructure Engineer - Core Platform*

*Redwood City, CA*

- Build data/observability infra for secure, scalable ML, NN, deep learning, and LLM **explainability**. (*Spark, Kafka, Druid, Auth0, AWS, Temporal, Terraform, Helm, SHAP, QII*)
- Research **accessible data visualization** techniques for complex, reactive model interpretability (e.g. NLG-driven descriptive chart captioning for model fairness metrics). (*Highcharts, React, Chart-to-Text*)
- Architect APIs to enable dynamic **data quality time-series monitoring** and customizable rule/metric computation. (*gRPC/Protobuf, Java, Python, Azure, Kubernetes*)

### 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 #ally.

### 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*)
- 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*)

## LEADERSHIP AND INVOLVEMENT

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### CS+Social Good

Aug 2018 - Dec 2021

*Co-President*

*Chapel Hill, NC*

- Led a 40-person team and built web/mobile apps for non-profits/student organizations, empowering local communities in areas like education, food security, sexual assault, mental health, and accessible tech. [[GitHub](#)]
- "Development of a Mobile App to Support Self-management of Anxiety and Depression in African American Women: Usability Study". McCall T, Ali M, Yu F, Fontelo P, Khairat S, **Computer Science + Social Good at UNC Chapel Hill (app development)**. *JMIR Form Res 2021*. [[Paper](#)]

### HackNC

Aug 2018 - Dec 2021

*Director of Sponsorship*

*Chapel Hill, NC*

- Directed one of the largest hackathons for social good in the US. Spearheaded initiatives for D&I, led partnerships with minority-focused accelerators/funds, sponsors, and non-profits, and oversaw \$50K+/year.

## PROJECTS

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- **FloodGate:** Leveraged live, crowd-sourced text/location data for early flood warning and detection. **Best Use of Twilio Award, HackDuke 2019**. (*Arduino/C, Flask, Google Maps/GCP, Twilio API, Python*)
- **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

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- **Languages/Frameworks:** Python, Java, C/C++, SQL, Postgres, MongoDB, Keras, TensorFlow, PyTorch, R, JavaScript, TypeScript, HTML/CSS, React, Node.js, Flask, Swift, SMART on FHIR
- **Technologies:** AWS, Azure, Linux, Kubernetes, Helm, Temporal, Terraform, Git, Docker, Postman, Figma