

COLE VITA

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PROFESSIONAL EXPERIENCE

CHEEKY | Chapel Hill, North Carolina

Co-Founder, CPO, Full-Stack Developer

September 2022 – Present

- Design and build **scalable web application** using **React** frontend and **Node.js** backend, with **MongoDB noSQL** database, focusing on **test-driven development** and leveraging **Docker** for containerization.
- Implement **microservices** architecture with **24+ APIs** for seamless communication between frontend, backend, and browser extension; host frontend on **AWS S3** with **CDN**, resulting in **40%** faster page load times.
- Utilize **AWS ECS** for backend deployment with **load balancers**, ensuring **99%** application availability.
- Incorporate **CircleCI** for **CI/CD** pipelines, automating **90%** of testing and deployment process, enabling **50%** faster deployment in feature updates and bug fixes, demonstrating ability to build production-grade systems.
- Create product recommendation algorithm using visual similarity, collaborative filtering with **KNNs** in **Pytorch**.

WELLS FARGO | Charlotte, North Carolina

June 2023 – August 2023

Commercial and Corporate Investment Banking Technology Intern

- Spearheaded the automation of data lineage mappings from over **34 databases** across two internal organizations for external auditing using **Python** and **Pandas**, demonstrating ability to handle large-scale systems.
- Created a **data pipeline**, cleaning and transferring data from **Excel** and **MongoDB** to **Azure Data Lake**.
- Decreased lineage insertion time by **200%** and mapping lookup time by **30%**, removed need for middleman.

Digital Technology and Innovation Intern

June 2024 - Present

- Develop testing framework using **Cucumber**, **JSON**, and **Gradle**, reducing manual testing efforts by **80%**.
- Automate test cases using **Python**, integrating with **Kafka** on **Azure**, resulting in **15%** increase in test coverage.

RESEARCH & PROJECTS

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

August 2023 – Present

Neuropixel data analysis, Undergraduate Researcher, Dr. Pipiras

- Develop advanced **ML/DL** models (ST-GAT, LSTM, Transformer, KAN) using **PyTorch** achieving **98%** prediction accuracy for visual stimuli in mice based on neural firing rates. Setup **Kubernetes** cluster to increase collaboration.
- Apply **transfer learning**, freezing classification layers and **fine-tuning** models to achieve **95%** accuracy across subjects.
- Increase model performance by over **400%** using **parallel processing**, **neural embeddings**, and **HEBO optimisation**.
- Publish and present findings at international conferences ([CNS 2024](#), [CCN 2024](#)), highlighting implications of results.

SOLUTIONBOXX

Co-Founder, Full-Stack Developer

May 2023 – Present

- Create Typescript decision-tree paired with **Angular**, **FastAPI**, **MongoDB** for consultant-contractor matching software.
- Speak with senior industry professionals at firms like Jacobs and STV to ideate solution to cut time and resources spent on RFP and RFQ process by more than **50%** while focusing on intuitive UI/UX experience for target end users.

LEADERSHIP INVOLVEMENT

SIGMA CHI ALPHA TAU | Chapel Hill, North Carolina

December 2022 - December 2023

President

- Led chapter-wide meetings, directed an executive board for a fraternity of **100** members.
- Spearheaded fundraising event with **\$500,000+** in donations, organized largest alumni event in **two decades**.
- Selected from **1,000** applicants for Koenig Academic Scholarship, recognizing exceptional leadership capabilities

Head Philanthropy Director, Assistant Risk Manager

November 2021 - November 2022

- Achieved regional record, raising over **\$45,000** over **7-day** period for the Huntsman Cancer Institute.
- Orchestrated and coordinated large-scale philanthropic events with over **1,000** attendees.

EDUCATION

UNIVERSITY OF NORTH CAROLINA CHAPEL HILL

May 2025

Bachelor of Science: Computer Science | Minors: Data Science, Statistics

GPA: 3.6/4

Relevant Coursework: Data Structures and Analysis, Systems Programming Fundamentals, Structure/Organize Code, Methods of Data Analysis, Linear Algebra for Applications, Math for Data Science, Computer Organization

UNIVERSIDAD CARLOS III DE MADRID

January - June 2024

Relevant Coursework: Probability, Engineering Management, Programming Techniques

SKILLS

- **Programming Languages:** Python | JavaScript | R | C | C++ | SQL | Typescript | Java | HTML | Rust
- **Additional Libraries & Frameworks:** Numpy | REST API | Spring | Selenium | Django | BS4
- **Public Speaking:** 2021 Florida **Public Forum Debate State Champion**, ranked **Top-20** Nationally.
- **Certifications:** Microsoft Certified: Azure Fundamentals, Microsoft Certified: Azure AI Fundamentals (in progress)