

SUMMARY

M.S. Computer Science candidate (4.0 GPA, expected May 2026) with a B.S. in CS (4.0 GPA) and practical experience in full-stack development (React, Node.js, Python, FastAPI) and machine learning (PyTorch, TensorFlow). Proven ability to architect and deploy software solutions, exemplified by developing an AI career guidance platform and an image-to-Latex converter.

PROFESSIONAL EXPERIENCE

- Deposit Specialist | UNC Finance And Operations, Chapel Hill, NC

Oct 2024 – Present

 - Managed reconciliation of \$3B in weekly deposits, maintaining 100% accuracy and ensuring full compliance with university financial policies.
 - Streamlined payment workflows using PeopleSoft Financials, boosting operational efficiency by 35% and overall office productivity by 20%.
 - Managed the entire UNC student database and reduced processing time by 15% via Tableau data analysis.
- Lead Software Developer | UNC Eshelman School of Pharmacy, Chapel Hill, NC

Oct 2024 – Jan 2025

 - Architected & developed 'IllnessLab,' a Flutter Web escape room (PharmAlliance funded), enhancing clinical education for 1000+ students.
 - Engineered core game mechanics, complex logic & UI/UX for responsive engagement; deployed university-wide.
- Software Engineering Tutor | Arizona State University, Tempe, AZ

Aug 2021 – May 2024

 - Tutored 1500+ students in Data Structures Algorithms, clarifying concepts with practical examples to boost comprehension.
 - Advised 100+ students on complex coding projects (e.g., pathfinding algorithms, database design), strengthening their debugging, algorithm implementation, and software design capabilities.
- Teaching Assistant | Arizona State University, Tempe, AZ

Aug 2022 – May 2024

 - Instructed 200+ engineering students weekly in complex calculus, providing individualized support to enhance problem-solving.
 - Graded assignments for 150+ students/semester in Calculus I II, delivering detailed feedback to guide student learning.

TECHNICAL SKILLS

- Languages:** Python, C++, Swift, C, HTML, JavaScript, CSS, Java, Dart, C#, TypeScript
- Frameworks and Libraries:** React, Node.js, Express, FastAPI, Pandas, NumPy, TensorFlow, PyTorch, SwiftUI, Scikit-learn, LangChain
- Cloud & DevOps:** AWS (S3, EC2, Lambda), Docker, Git, CI/CD (GitHub Actions)
- Databases:** PostgreSQL, MySQL, CoreData, Supabase
- Testing and Tooling:** JUnit, Selenium, Postman, Stripe API
- Other:** Data Structures, Algorithms, OOP, REST APIs, Agile Methodologies, Machine Learning, Computer Vision, NLP

SELECTED PROJECTS

- UNC Illness Lab

Full Stack, Flutter, UI/UX

Sept 2024 - Jan 2025

 - Contributed to the initial development of a Flutter web application (Escape Room) for healthcare education, focusing on core game mechanics, including sequential loop and escape room logic
 - Collaborated on refining a Flutter-based Escape Room, resulting in deployment to 1000+ UNC students for healthcare education.
- Career-Copilot AI

AI Agents, SaaS, Full Stack

May 2025

 - Engineered 'Career-Copilot AI,' a full-stack SaaS platform using React, FastAPI, LangChain, and OpenAI, delivering personalized resume analysis and AI-driven interactive career coaching.
 - Integrated Supabase for data persistence, Stripe for payment processing, and deployed sophisticated LangChain AI agents to provide context-aware career guidance, receiving positive beta tester feedback on advice relevance.
- Image to LaTeX

Machine Learning, Computer Vision, Neural Networks

Aug 2024 - Dec 2024

 - Developed an end-to-end equation-to-Latex conversion system leveraging OCR and NLP techniques (PyTorch/TensorFlow), achieving 92% transcription accuracy on a dataset of 1,000 diverse mathematical expressions.
 - Improved OCR accuracy by 15% with Vision Transformers (ViT, PyTorch) and boosted LaTeX generation precision by 10% using fine-tuned decoder LLMs (Hugging Face).
- PumpPal - Macro Tracking iOS app

SwiftUI, Swift, CoreData, CoreML, Mapkit

Sept 2023 - Dec 2023

 - Developed an iOS macro-tracking app in Swift and SwiftUI, integrating Nutritionix REST API for precise nutritional data.
 - Implemented CoreML for on-device machine learning features, such as predictive meal suggestions based on user history, enhancing user experience through personalized insights; recognized by peers for robust functionality.

EDUCATION

- M.S. in Computer Science | University of North Carolina At Chapel Hill, NC

Aug 2024 – May 2026

 - GPA: 4.0/4.0
 - Relevant Coursework: Advanced Machine Learning, Computer Vision in 3D world, Digital Logic
- B.S. in Computer Science | Arizona State University, AZ

Aug 2020 – May 2024

 - GPA: 4.0/4.0
 - Relevant Coursework: Artifical Intelligence, Data Structures and Algorithms, iOS app development, Database Management

AWARDS AND HONORS

- Moeur Award – Arizona State University

 - Awarded by ASU for highest academic standing for eight consecutive fall and spring semesters
- 8 x Dean’s List – Arizona State University

 - Completed 121 letter-graded units during 8 semesters with a 4.0 GPA
- New American University Scholarship – Arizona State University

 - Acknowledged for academic excellence with a financial award of \$15,500/year in recognition of achievements.
- SUN Award – Arizona State University

 - Awarded five times by the University for exceptional professional performance