

Jason Pereira

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EDUCATION

University of North Carolina at Chapel Hill | Chapel Hill, NC

May 2027

B.S. in Computer Science, B.S. in Statistics and Analytics

- **Clubs:** CS + Social Good, App Team Carolina, Carolina Skylab (Drone Team), Buckley Public Service Scholars, FBLA-C, TEDx
- **Relevant Coursework:** MATH381 Discrete Mathematics, STOR320 Methods and Models of Data Science

Central Piedmont Community College (Dual-enrollment) | Charlotte, NC

Jul. 2025

Associate in Arts Degree / GPA: 4.0/4.0, Named to President's List

- **Relevant Coursework:** CSC249 Data Structure & Algorithms, MAT273 Calculus III, MAT280 Linear Algebra

SKILLS

Technical Skills: Python, Java, SQL, Machine Learning, Agentic AI, Google ADK, A2A, MCP, Generative AI, LLM, NLP, Computer Vision, CNN, JavaScript, React.js, JSON, HTML/CSS, MongoDB, Tableau, Swift/SwiftUI, Data Science, Research, CODAP, API, Git

Soft Skills: Critical Thinking, Leadership, Project Management, Collaboration, Problem-solving, Communication, Adaptability

Certifications: Google Generative AI Fundamentals, Open Source Models w/ Hugging Face (DeepLearning.AI), NCSSM Research Prep

RELEVANT EXPERIENCE

Artificial Intelligence Intern, Arthmetis | Charlotte, NC

Jun. 2025 - Present

- Researched emerging AI strategies and innovations to design and train machine learning models for **predictive analytics**, focusing on forecasting consumer preferences and decision-making patterns
- Engineered a **LLM-powered product recommendation system** leveraging **Python, LangChain, and vector embeddings (FAISS)**, analyzing user behavior and generate recommendations to enhance retailer marketing and engagement strategies

Data Science Researcher, UNC Charlotte Department of Mathematics & Statistics | Charlotte, NC

Feb. 2024 - Present

- Conducted data science research under UNC Charlotte professor, **co-authoring two papers**: one analyzing systemic racism in **150k traffic stops** and investigating correlations between disciplinary practices and demographics across **NC's 100 districts**
- Applied Python, data visualization, and statistical modeling to identify disparities and highlight equity challenges and later presented findings at the **NCCTM State Math Teachers Conference** ([Link](#)) in November 2024

AI Scholar Intern, Social Media Intern, Inspirit AI | Charlotte, NC

May 2023 - Dec. 2024

- Built **AI projects** including an ML-based system using **NLP for sentiment analysis** of financial news and a computer vision self-driving car model using **CNNs to classify road objects**
- Selected for the **AI Scholars Research Program** where I collaborated with MIT and Stanford alumni to **apply advanced machine learning methods** to real-world finance and autonomous vehicle challenges

PROJECTS

Case Closed | Duke AI Hackathon 1st Place Winner [Productivity & Enterprise Tools Track]

Nov. 2025

- Developed an **AI-powered legal research tool** using **multi-agents** to analyze court documents and recommend precedents through an interactive chat-based frontend with a modular backend **via Python, Vertex AI (Gemini 2.5 Pro), and REST APIs**
- Presented to **220+ competitors and 34 Duke faculty/professional judges** through 2 initial pitch rounds & a final showcase

Financial News Sentiment Analysis | Personal Project

Oct. 2025

- Fine-tuned a **BERT transformer model** using **Hugging Face and PyTorch** to classify financial statements and market news as positive, neutral, or negative, achieving **97% test accuracy** to guide informed stock buying and selling decisions
- Applied advanced NLP techniques on financial text to improve sentiment detection and support reliable market trend analysis

AWARDS & LEADERSHIP

- **Eagle Scout, Scouting America**, (active BSA scout since 2013) 32 Merit Badges, Gold Eagle Palm. Several troop leadership roles, Order of the Arrow Honor Society, Junior Assistant Scoutmaster. Led 181-hour Eagle Scout Service Project.
- **4th Place National Leadership Conference, FBLA**, Website Design; **2x FBLA State Champion - 1st Place**
- **Anthropic Claude AI Hackathon 1st Place Winner, Anthropic**, built an interactive gamified stress-relief productivity app
- **Wells Fargo Scholarship Program; Morgan Stanley Early Insights Program 2025; UNC Project Uplift and Uplift PLUS**