

# ELIJAH CAMPBELL-IHIM

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## SUMMARY

**Computer Science Graduate | Developer & Educator** | Passionate about inspiring students to reach their highest potential. Over 6 years of experience working with children and teens in educational settings, including coding instruction, classroom leadership, and curriculum development. Strong technical background in generative AI, machine learning, and application development using Python, TypeScript, and modern frameworks. Awarded Full-Tuition Presidential Scholarship and graduated Magna Cum Laude with 3.8 GPA.

## WORK EXPERIENCE

### High School Computer Science Teacher

**North Star Washington Park High School** | Newark, NJ

Oct 2025 – Jun 2027

- Taught 200+ high school students foundational programming concepts in Python, JavaScript, HTML, and CSS.
- Developed year-round curriculum for “Programming in Python” and “Principles of Computer Science” courses.
- Managed 6 classrooms, delivered engaging lessons, graded assignments, and communicated outcomes to families.
- Launched a new “Machine Learning & AI” course covering fundamentals in Data Science, ML, and Generative AI.
- Presented classwork and student progress data to supervisors, continuously integrating instructional feedback.

### Head Counselor

**Boys and Girls Club of America** | Hawthorne, NJ

Jul 2023 – Jun 2025

- Directed daily programs and activities for groups of 20+ children, fostering a safe and positive environment.
- Built strong, lasting relationships with club members and staff through effective communication and conflict resolution.
- Encouraged teamwork & personal growth among club members, and communicated behavioral patterns with parents.
- Supervised and supported assistant and junior counselors, ensuring compliance with safety and behavioral protocols.

### Lead Coding Instructor

**Code Ninjas** | Midland Park, NJ

Jun 2021 – Jul 2024

- Instructed 100+ children ages 7-14 how to code in JavaScript using the Code Ninjas digital curriculum.
- Educated students in Scratch, C# Unity development, robotics, 3D-printing, and Object Oriented Programming.
- Collaborated with 3 local elementary schools to provide after-school programs focused on coding fundamentals.
- Organized, designed, and directed 10+ STEM-related summer camps as the 2022 Lead Summer Camp Director.
- Independently managed daily opening and closing procedures and oversaw front desk operations at Code Ninjas.

## EDUCATION

**Ramapo College of New Jersey** | Mahwah, NJ

Aug 2021 – Jun 2025

Bachelor's degree, Computer Science | **GPA: 3.8**

**Academic Honors & Awards:** Full-Tuition Presidential Scholarship, Magna Cum Laude, High School Salutatorian

## CERTIFICATIONS

### AI Engineering Professional Certificate

Issuer: IBM | [Certificate Link](#)

Nov 2024 – Jan 2025

Topics: TensorFlow, Keras, PyTorch, NLP, Transformers, Fine-Tuning, RAG, LLMs, LangChain

### Machine Learning Specialization

Issuer: Stanford University & DeepLearning.AI | [Certificate Link](#)

Jun 2023 – Aug 2023

Topics: Supervised Learning, Unsupervised Learning, Neural Networks, Reinforcement Learning

## PROJECTS

**AI Tutor Web Application** – [GitHub](#) | [Live Site](#) (Senior Capstone Project) Feb 2025 – May 2025

⇒ Tech Stack: React, Next.js, Tailwind CSS, Python, LangChain, Supabase, FastAPI

- Developed an LLM-powered online learning platform to provide personalized tutoring on any academic subject.
- Implemented adaptive lesson plans and self-grading quizzes using RAG and prompt engineering techniques.
- Deployed frontend to Vercel and backend to Render using FastAPI, a REST API architecture, and automated CI/CD.

**Resume Assistant** – [GitHub](#) | [Live Site](#) Jun 2025 – Aug 2025

⇒ Tech Stack: React, TypeScript, Python, LangChain, Supabase, FastAPI, Docker, AWS ECS

- Developed a resume analysis web app to provide nuanced resume feedback and revision suggestions.
- Integrated a resume-aware chatbot and job description compatibility rankings, powered by GPT-4o-mini.
- Deployed containerized FastAPI backend on AWS ECS with automated CI/CD via Vercel and GitHub Actions.

**Canoga Java Edition** – [GitHub](#) Mar 2025 – Apr 2025

⇒ Tech Stack: Java, XML, Android Studio

- Designed the complex strategy game “Canoga” with an intelligent CPU opponent, GUI, and extensive game logic.
- Adhered to strict coding guidelines, documentation standards, project specifications, MVC architecture, and deadlines.

**Personality Test Mobile App** – [GitHub](#) Jan 2025 – May 2025

⇒ Tech Stack: TypeScript, React Native, Expo, Android Studio, Firebase

- Created a mobile app for assessing and storing users’ personality types based on the Big Five personality model.
- Incorporated a self-grading personality test algorithm, user account management, and responsive UI/UX design.

**Customer Churn Neural Network** – [GitHub](#) Nov 2024 – Dec 2024

⇒ Tech Stack: Python, Pandas, NumPy, PyTorch, Jupyter Notebook

- Engineered a PyTorch neural network to accurately predict customer churn, achieving 92% test accuracy.
- Leveraged upsampling and data preprocessing techniques to handle class imbalances and mitigate model overfitting.

## TECHNICAL SKILLS

**Languages:** Python, TypeScript, JavaScript, Java, C++, C#, SQL, HTML/CSS

**AI & Machine Learning:** Supervised/Unsupervised Learning, Neural Networks (PyTorch, TensorFlow, Keras), Scikit-Learn, Reinforcement Learning, Model Evaluation

**Generative AI:** LLM Application Development, Retrieval-Augmented Generation (RAG), LangChain, Prompt Engineering, Natural Language Processing (NLP)

**Frameworks & Libraries:** React, Next.js, React Native, FastAPI, Node.js, Tailwind CSS, Pandas, NumPy, Matplotlib

**Cloud & Deployment:** AWS (ECS), Docker, Vercel, CI/CD (GitHub Actions), Git/GitHub, REST APIs

**Database:** PostgreSQL, MySQL, NoSQL, Firebase, Supabase

## EDUCATIONAL & LEADERSHIP SKILLS

**Teaching:** Curriculum Development, Lesson Planning, Classroom Management, Student Assessment & Grading, Parent-Teacher Communication

**Subject Expertise:** Computer Science Fundamentals, Python Programming, Scratch, Robotics, Unity Game Development, Object-Oriented Programming (OOP), Data Science, Machine Learning & AI Fundamentals

**Soft Skills:** Problem-Solving, Team Leadership, Teaching & Mentorship, Public Speaking, Effective Communication