

ZACHARY GORDON

zachgordon25@gmail.com | (862) 438-7074 | West Orange, NJ
[linkedin.com/in/z-gordon](https://www.linkedin.com/in/z-gordon) | github.com/zachgordon25 | zacharygordon.dev

EDUCATION

Kean University

B.S. Computer Science, Cybersecurity concentration
Minor in Mathematical Science

Union, NJ

September 2021 – December 2024

- **GPA:** 3.96; *summa cum laude*
- **Dean's List:** Fall 2021 - Spring 2024
- **Relevant Courses:** Digital Forensics, Computer Security, Principles of Networking, Database Management Systems, Object Oriented Programming, Data Structures and Algorithms, Operating Systems, Computer Organization & Architecture, Software Engineering, WWW Server Programming, Discrete Structures, Linear Algebra, Calculus I-III

General Assembly

Software Engineering Fellow

Stamford, CT

June 2019 – September 2019

- Completed General Assembly's Software Engineering Immersive program dedicated to preparing students to think like engineers and approach problems creatively.

SKILLS

- **Languages:** Java, Python, MIPS Assembly, SQL, MySQL, PostgreSQL, MongoDB, R, JavaScript, Node.js, HTML, CSS
- **Frameworks:** Flask, Express.js
- **Tools:** Git, GitHub, Visual Studio Code, IntelliJ IDEA, Linux, R Studio, Wireshark, ProDiscover, OSForensics, WinHex

RESEARCH PROJECTS

ChatGPT Translation of Program Code for Image Sketch Abstraction

Kumar Y, Gordon Z, Alabi O, Li J, Leonard K, Ness L, Morreale P. ChatGPT Translation of Program Code for Image Sketch Abstraction. Applied Sciences. 2024; 14(3):992.

<https://doi.org/10.3390/app14030992>

- Collaborated on research into leveraging large language models for MATLAB to Python translations and AI pair programming.
- Utilized ChatGPT-4 to successfully translate a 15-file MATLAB project to Python.
- Partnered with ChatGPT-4 in a pair programming setup to develop a Flask application, demonstrating proficiency in collaborative AI tools.
- Integrated a feature into the Flask application to develop a skeleton of an image using Python code translated from MATLAB, laying the groundwork for further development.
- Implemented a functionality in the Flask application to execute MATLAB to Python translations utilizing the OpenAI API with the GPT-4 model, showcasing technical expertise in using AI programming assistants.

PROFESSIONAL EXPERIENCE

Kean University

Supplemental Instruction Leader

Union, NJ

September 2022 – December 2024

- Organized and facilitated group Supplemental Instruction sessions and office hours for students taking Fundamentals of Computer Science, focusing on introductory Java material.
- Utilized various facilitation skills including redirecting questions, wait time, and checking for understanding to ensure productive review sessions.
- Held position of *Team Leader* (January 2023 - May 2023)
 - Facilitated meetings with other Supplemental Instruction Leaders to provide announcements, monitor progress, and provide feedback on performance and preparation materials.

AI4ALL

College Pathways Teaching Assistant

Virtual

August 2023 – December 2023

- Facilitated interactive lab sessions and assisted with ethical discussions as part of the 10-week "Discover AI" program, utilizing Python for hands-on activities and supporting inclusive learning for students from diverse backgrounds.
- Assisted in course setup and management through the Learning Management System (LMS), including tracking student progress, grading assignments, and actively responding to student queries via discussion boards and emails.

Hunter Digital

Node.js Backend Developer Intern

New York, NY

October 2019 – January 2020

- Developed a REST API using Express, PostgreSQL, PostGIS, and Redis.
- This application used location filtering and personal preferences to help find the right summer camp for their child.

AFFILIATIONS

- Association for Computing Machinery
- Upsilon Pi Epsilon International Honor Society for Computing and Information Disciplines
- Tau Sigma National Honors Society