

Arnav Revankar

Junior Computer Engineer @ NJIT

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SUMMARY

Highly motivated Computer Engineering student with a strong passion for Embedded Systems, Data Science and Machine Learning. Seeking an internship/coop opportunity to apply my skills and gain experience with real world engineering. Proficient in C, C++, Java, and Python, circuit design/simulation with KiCAD, as well as popular linear algebra and machine learning frameworks like NumPy, PyTorch, and Scikit Learn. Eager to contribute to innovative projects and gain hands-on experience in real world engineering.

EDUCATION

New Jersey Institute of Technology (Sept 2023 - Present) Cumulative GPA: 3.65
BS Computer Engineering, Minor in Data Analytics Newark, NJ

- **Coursework:** Circuits and Systems 1 & 2, Microprocessors, Computer Architecture, Database System Design, Digital Design, and others.
- **Activities:** NJIT Solar Car Club (Software/Electronics Team)

County College of Morris (Sept 2022 - May 2023) Cumulative GPA: 3.83
Challenger Program for High School Students Randolph, NJ

- Completed over two semesters as a part-time student.

EXPERIENCE

SWE Intern March 2025 - August 2025
Mathnasium Chatham, NJ

- Spearheaded a project developing a full-stack Javascript/Node.js application that generates emails for parents of students at a Math Tutoring Center I work for.
- Effectively employs a BNF Grammar, that is used to generate syntactically valid text from a set of customizable templates.
- Was working on a Node.js backend that'll retrieve student information, further reducing required user input.
- Currently being used to send 110-150 emails per day, saving 5 centers 30-40 hours a week.

Undergraduate Research Assistant October 2025 - Present
Assisting Prof. Tao Han Newark, NJ

- Assisting in the development of a Microsoft Hololens application, for CV-based object detection.

SKILLS

- **Languages:** C, C++, Java, Javascript, Python, SQL (MySQL), MATLAB, GNU Octave, HDL, L^AT_EX
- **Software Tools:** Linux/Unix, KiCAD, FreeCAD, PlatformIO, Excel, Git
- **Build Tools/Debuggers:** Apache Maven, Apache Ant, CMake, Make, MSVC & GCC, GDB, Valgrind
- **Libraries:** NumPy, PyTorch, Scikit Learn, Matplotlib, Gnuplot, LWJGL (GLFW)

PROJECTS

Sound Based Triangulation July 2025 - Present

- Currently working on a short distance sound based triangulation system.
- Designed a custom PCB using KiCAD to amplify, filter, and sample incoming signals.
- Signal Processing will be performed on an ESP32 S3 MCU.

NeuralNet (Github) Oct 2024 - Feb 2025

- Fully-Connected Neural Network Library for Regression and Classification in C.
- A pet project to learn Machine Learning algorithms (minimal external libraries used).
- Backpropagation using Stochastic Gradient Descent in Matrix form.