Aseef Durrani

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I am a junior majoring in ECE concentrating in Computer Engineering, fueled by a mindset that welcomes challenges and seeks discomfort. Eager to expand my skills, I'm looking to contribute to innovative solutions in a progressive tech environment.

EDUCATION

Rutgers University, School of Engineering — **New Brunswick, NJ**
Bachelor of Electrical and Computer Engineering — Sep 2021 – May 2025

- **GPA:** 3.6 / 4.0
- **Relevant Coursework:** Data Structures and Algorithms, Programming Methodology 1, Computer Architecture and Assembly Language, Probability and Random Processes, Principles of Electrical Engineering 2, Electronic Devices, Digital Logic Design, Linear Systems and Signals, Embedded Systems, Software Engineering
- **Honors:** Dean's List Fall 2022, Spring 2023, Fall 2024, Spring 2024

EXPERIENCE

Fullstack Software Engineer Intern — **New York, NY**
Elavize — *June 2024 - July 2024*

- Developed and maintained a full-stack application for job seekers using Next.js, DaisyUI (Tailwind), TypeScript, Node.js, and MongoDB.
- Built an internal tool for the team to access and edit the knowledge base directly within the platform, streamlining operations and improving team efficiency.
- Engaged in a client-facing role by gathering valuable feedback and insights from potential clients, contributing to platform development while adapting to the fast-paced, dynamic challenges of a startup environment.

Software Engineering Fellow — **Remote**
HeadstarterAI — *July 2024 - Present*

- Build 5+ AI apps utilizing technologies like Next.js, OpenAI API, Stripe API, Pinecone, Firebase, and Node, culminating in a final project aiming to ship to 1000+ users
- Developed projects from design to deployment leading 3 other engineering fellows using MVC design patterns
- Coached by Google, Amazon, and Bloomberg engineers on Agile, CI/CD, Git, and microservice patterns

Embedded Systems | *Microprocessor Final Project* — *Spring 2024*

- Built a general-purpose processor with application-specific instructions for video and keyboard communication
- Ran a bitstream of the microprocessor on a Zybo Z7 FPGA Device. Utilized Xilinx Vivado Software to Simulate, Test, and Synthesize all Components. Coded using VHDL
- Project Demonstration: https://youtu.be/3QK3lL7_6bE?si=AzNqAUkKN0J7SPZI

InShort | *Next.js, Typescript, Python, Pinecone, LangChain, OpenAI* — *July 2024*

- Built a personalized news application, providing insights/analyses of current events
- Wrote an automatic Python script to scrape over 125 million articles on the GDELT database
- Employed a RAG pipeline using Pinecone vectors to enhance OpenAI model training.
- Gathered 35+ users on a waitlist in less than 1 week

Gym Haven | *Node.js, Javascript, React.js, MongoDB* — *Jan 2024 - May 2024*

- Created a subscription-based e-commerce solution for fitness equipment
- Managed a 12-member team, delegating individual assignments and organizing weekly meetings
- Incorporated OAuth Authentication for user registration/login, Stripe API for payment processing, Web3Forms and OpenAI APIs for customer service, and EasyPost API to mimic shipping
- Composed detailed reports outlining data collections, application structure, and 40+ REST API endpoints

HackRU (Winner) | *Python, Streamlit, AWS EC2* — *Spring 2023*

- Achieved 2nd place in Health Track from 170 competitors overall. Worked with a team of 2 others to develop a web app aimed at reducing gym overcrowding on campus.
- Developed the app in Python, utilizing third-party services like Streamlit API, optimizing for real-time crowd-level updates based on user input.
- Deployed web app on an Amazon AWS EC2 instance, ensuring scalable and reliable performance.

SKILLS & EXTRACURRICULARS

Languages: English (Fluent), Urdu (Fluent)
Technical Skills: JavaScript, Python, C/C++, RISC-V, Matlab, HTML/CSS, VHDL, NextJS, React, Node.js, Git, MongoDB, Pinecone, Firebase, SQL, Jasmine, DaisyUI (Tailwind), Circuit Design, Streamlit, LTSpice, Arduino, Linux
Clubs/Societies: USACS, Rutgers Formula Racing