NEEL KUMAR

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Summary

UIUC CS student with 2.5+ years of part-time paid software development experience and 2 national award-winning projects.

Education

Computer Science at the **University of Illinois Urbana-Champaign** **Present**

CS 124 (**Java/Kotlin**) • CS 128 (**Docker/C++/Linux**) • CS 173 (Discrete Mathematics) • CS 225 (Data Structures & Algorithms)

Skills

Programming Languages - Python | Java | JavaScript | TypeScript | C++ | C# | Kotlin | Swift | HTML/CSS
Frameworks/Libraries - React | Astro | Three.js | Unity | Flask | Selenium | Pandas | Jinja | BeautifulSoup | SciPy | NumPy
Cloud/DevOps - AWS | Firebase | Docker | Vercel | Heroku | Git | GitHub | Trello
Certifications - AWS Cloud Practitioner (expected March 2025) | Python Software Engineer (JPMorgan)

Work Experience

AI Prompt Engineer - Data Annotation June 2024 – **Present**
• Used parameter-efficient fine-tuning to improve 5 LLMs from 80+ prompt-response pairs in **Python**, **C++**, and **JavaScript**

Code Instructor - Code Ninjas Downingtown Jan 2022 – Aug 2024
• Mentored 100+ students to learn object-oriented programming concepts in **C#/Unity** through game development

Robotics Intern - Lockheed Martin July 2023 – Aug 2023
• Validated and improved the reliability of a robot wheel controller using **C++**

Projects

CSS-to-TailwindCSS Converter 🔗 Aug 2024 – Sep 2024
• Created a site that tokenizes CSS to convert it to TailwindCSS using **HTML**, **CSS**, **JavaScript**, and **TailwindCSS**
• Supports all TailwindCSS rules and prefixes; parses CSS variables to generate a Tailwind config file.

Homelessness Crisis & Solution Analysis - MathWorks Math Modeling Challenge 🔗 March 2024
• Worked in a team of 3 to place in the top 1% of 1000+ global entries, judged by PhD mathematicians to win a scholarship
• Modeled the homelessness crisis in the UK and forecasted potential impacts of solutions using **Python** and **NumPy**

Downingtown STEM Academy Systems Development
• Improved the quality-of-life for 1000+ student/staff in a team of 3 utilizing **HTML**, **CSS**, **Firebase, React**, and **TypeScript**

> **Online Deli Pre-Order Site** June 2023 – June 2024
> • Collaborated with the cross-functional Aramark food service team to create a pre-order site to reduce wait times by 30%

> **Counselor Scheduler** June 2023 – June 2024
> • Developed a secure app end-to-end for students to view counselor availability and schedule meetings
> • Created an admin dashboard for counselors to view a searchable, filterable database and monitor mental health trends

NBA Draft Pick Relative Value Analysis Dec 2023 – March 2024
• Conducted statistical analysis on the relative value of NBA Draft picks using **Python**, **Selenium**, **SciPy**, **NumPy**, and **Pandas**
• Leveraged web scraping to collect 72,000 unique data points (4 years of statistics for all players drafted 2000-2020)
• Calculated that a logarithmic regression model was best using AIC/BIC; visualized the model with **Matplotlib**

Technology Student Association
• Worked with a team of 6 to compete in coding events collaborating with **Git/GitHub**

> **Nationals 6th Place** – Lift 🔗 Sept 2022 – June 2023
> • Created a responsive 3D website that promotes LIFT, a modern space travel company, to place 6th out of 1000+ entries
> • Used AGILE processes to build with **HTML**, **CSS**, **TailwindCSS**, **JavaScript**, **Three.js**, and **Firebase**; CI/CD through **Vercel**

> **States 4th Place** – Investify 🔗 Sept 2022 – June 2023
> • Built a financial platform integrating real-time stock data, public and insider sentiment analysis via an internal **REST API**
> • Implemented paper trading for users to learn about shorts, calls, puts, etc. by simulating real-world market conditions
> • Used **HTML**, **CSS**, **TailwindCSS**, **JavaScript**, **Python**, and **Jinja** on the frontend
> • Used **Python**, **Flask**, **Pandas**, **Selenium**, **BeautifulSoup** and **Firebase** on the backend; CI/CD through **Heroku**