Aditya Patel

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EDUCATION

University of Illinois at Urbana-Champaign, *Grainger College of Engineering Bachelor of Science in Computer Engineering, Minor in Business*

- Honors and Activities: James Scholar, Dean's List: Fall 2021-Spring 2022-Spring 2023, Course Assistant for ECE 110 and ECE 313, iRobotics, SIGPWNY, Engineering Learning Assistant (ELA), ECESAC, Illini Formula Electric (IFE)
- **Relevant Course Work**: Discrete Structures, Analog Signal Processing, Data Structures, Algorithms & Models of Comp, Database Systems, Probability with Engineering Applications, Linear Algebra, Differential Equations
- In Progress: AI, Operating Systems, Computer Vision, Principles of Marketing, Mgmt and Organizational Behavior

EXPERIENCE

Esync Technologies

Software Engineering Intern

- Developing Flutter Mobile app that gives students the ability to interact and share notes with both a public and a private proxy
- Utilizing tools such as Flutterflow and Firebase for creating a pleasing UI/UX model and storage/authentication while configuring localization and internationalization to support multiple languages and adapt to different regions
- Conducting thorough performance profiling using Flutter DevTools along with inspection for memory leaks, strategic optimization of critical code segments, and checking for precise identification of bottlenecks

App-Scape

Lead Programmer

- Specialized in developing user-friendly apps using Java/Kotlin on Android Studio, including expertise in app permissions module through the Gradle build-up plugin and fundamental DSL elements
- Collaborated on optimizing app performances through efficient memory management techniques such as object pooling and cache optimization, resulting in a smoother user experience and reduced resource consumption

Engineering Council

Mentorship Chair

- Provided resource management and support for 5000+ engineering students in 60+ engineering societies across campus
- Worked collaboratively to plan college-wide events designed to offer educational, service, and social opportunities alongside planning process by developing ideas, securing sponsorships, and coordinating with various departments within Grainger

ENTRECORPS

Tech Consultant

- Collaborated with clients to enhance customer demographics, refined marketing strategies, and leveraged detailed competitor analysis to strengthen and streamline the plan of action for startups
- Used Jupyter notebook to keep track of user listings and an UI for scripting a speech-based AI model focused towards truck drivers for seamless driver/dispatcher communication, enabling efficient audio-based interactions

PULSE

Advanced Developer

- Managed several competitions and oversaw student submissions, alongside developing advanced coding problems through HackerRank designed to engage participants in technical and creative problem-solving
- Overlooked resource allocation for hardware competitions alongside solving storage management issues for PCB circuits

PROJECTS

Wikipedia Speedrun

• Engineered Python-based web scraping code to generate a CSV dataset and utilized C++ algorithms like Dijkstra's and Yen's to generate the shortest path between sets of links through various iterations and layouts

Text Fluent

- Developed an application (with 500+ downloads) utilizing the Google Translation API, elevating translation accessibility by integrating additional features, including real-time lock screen widgets
- Added a Beta feature that automatically translated through AI-based image processing utilizing optical character recognition (OCR), expanding the app's capabilities in document digitization

LA Crime

- Developed a website using React/NodeJS and Neo4J that allows users to access the LA crime records with any sort of parameters
- Added functionality to allow viewers to report witnessed crime, which is encrypted to only be accessed by the authorized

SKILLS

- Tools CAD, Arduino, MySQL Workbench, Alteryx, Excel, Altera Quartus, Jupyter Notebook, Docker, Flutter, Firebase
- Programming Languages C/C++, SQL, Java, Python, Neo4j, MongoDB, Assembly/LC-3, HTML/CSS, JavaScript/TypeScript

August 2023-Present

January 2020-Present

July 2022-Present

August 2022-Present

February 2023-Present

Expected Graduation: May 2025 Cumulative GPA: 3.87/4.00