

Rohan Vanjani

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EDUCATION

University of Illinois at Urbana-Champaign

August 2021 – May 2025

Bachelor of Science in Computer Science & Mathematics, Junior

G.P.A 3.89/4.00

- *Relevant Coursework:* Algorithms & Models of Computation, Data Structures, Fundamental Mathematics, Numerical Methods, Probability & Statistics, Linear Algebra, Differential Equations, Discrete Structures, Software Design Lab

WORK EXPERIENCE

Zebra Technologies

June 2023 – Present

Software Engineer Intern II

Lincolnshire, IL

- Implemented Python programs to diagnose 200+ faulty printers and determine user-statistics for our ZSB mobile app
- Designed a Grafana GUI for viewing 100% of customer errors compiled using Google Cloud and Big Query
- Built Microsoft Teams bots to notify developers about test device registrations and disconnects compiled on GCP

Software Engineer Intern

May 2023 – August 2023

- Assisted in integrating a Bluetooth Low Energy sensor device into a mobile Flutter application in Android Studio

Crowd Dynamics Lab

January 2023 – Present

Undergraduate Research Assistant

Champaign, IL

- Working with a team under Dr. Hari Sundaram to audit Amazon.com and determine whether it is price discriminating in the book/kindle industry based on 9 different buyer profiles and 50+ book genres
- Implemented a Selenium Python web-scraping app to garner and filter price information into a MongoDB database
- Developed a program with 3 other students to execute 20+ queries daily to generate one million plus data points

Hack4Impact UIUC

September 2022 – Present

Software Developer

Champaign, IL

- Building a React.js web app for a nonprofit geared towards providing voting information to people with disabilities
- Collaborating with 8 other developers to release 50+ new features in preparation for the product's official release
- Implemented a webpage to display local polling information sourced from the BallotReady and Google Civic APIs

Illinois Business Consulting

September 2021 – January 2022

Consultant

Champaign, IL

- Worked with a chemical additive manufacturer for batteries in East Asia to assess 6 potential R&D projects
- Developed product scorecard recommendations for 20+ chemicals and an industry roadmap for the next 3 - 5 years

PROJECTS

ReCalendar | Python, Flask, React.js, Typescript, Git

August 2022 - December 2022

- Developed a full-stack web application to aggregate course assignments using Flask with React as the frontend
- Implemented the backend script with Python to obtain and parse data from a student's Canvas account
- Designed a stylistic frontend to display and sort course assignments by date using Typescript, React.js, and ChakraUI

OpenFlights Graph Algorithms | C++, Docker, Git, Makefile, CMake

November 2022 – December 2022

- Designed an efficient algorithm to convert two datasets with 100,000+ data points into a weighted, directed Graph
- Implemented Dijkstra's and Kosaraju's algorithms to determine shortest paths and strongly connected components
- Wrote 20+ unit test cases to assess the efficiency, accuracy, and space complexities of our algorithms using CMake

TECHNICAL SKILLS

Languages: C++, Python, Java, SQL (BigQuery), HTML/CSS, Typescript, JavaScript, Terraform

Frameworks & Libraries: React.js, Next.js, Flask, Node.js, WordPress, Flutter, Tailwind CSS, NumPy, Selenium, Matplotlib

Developer Tools: Git, Docker, Android Studio, Google Cloud Platform, Visual Studio Code, Grafana