Ari Kamat

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EDUCATION

New Jersey Institute of Technology - Albert Dorman Honors College   **2022 - Expected 2025**
Bachelor of Science in Computer Science and Applied Mathematics
Relevant Coursework: Data Structures & Algorithms | Discrete Math | Compiler Design | Linear Algebra | Probability & Statistics

EXPERIENCE

New Jersey Institute of Technology, *Teaching Assistant for CS 113 & CS 114*   **Jan. 2023 - PRESENT**
- Assist students in completing Data Structures and Java assignments, ensuring comprehension

Rutherford Education Center, *Math Tutor*   **Jan. 2023 - PRESENT**
- Instruct and mentor K-12 students in math and standardized testing (SAT, ACT, NJSLA) as well as math competitions

Merck, *Technology Intern*   **Jun. 2023 - Sep.2023**
- Leverage advanced technologies such as Node.js, React.js, AWS DynamoDB, Langchain, LLMs, and various APIs to implement generative AI capabilities into an internal chatbot that streamlines Merck's document management processes by 200%
- Develop interactive data visualization models and dashboards using Spotfire, enhancing data comprehension and decision-making

Morgan Stanley, *Technology Analyst Intern*   **Jul. 2021 - Jun. 2022**
- Developed a reliable REST API with Flask and Flask-RESTPlus libraries for seamless data access from a DB2 relational database.
- Optimized data retrieval through dynamic Marshmallow models and optimized SQLAlchemy queries using factory generators
- Moderated the API's load by effectively utilizing the Flask-Limiter library
- Applied Agile and Scrum methodologies to drive project development, delivering high-quality results

RESEARCH

Simulating Patient Behavior with Supervised Machine Learning Algorithms   **Feb. 2023 - PRESENT**
New Jersey Institute of Technology
- Implemented supervised learning and AI to create intelligent patient behavior within a Unity simulation of a mental asylum

PROJECTS

DineTrack | *Personal Project*   **Sep. 2023**
- Developed an IOS mobile app leveraging Expo and React Native to track meal plan utilization at NJIT's dining hall

DemoBiz | *Personal Project*   **May 2023**
- Developed a Python Flask web application utilizing Celery, Redis, Pandas, and various APIs. Generates and emails CSV files to prospective business owners with demographic and business data for specified zip codes and business names

Havel | *HackPrinceton*   **Apr. 2023**
- Designed and developed a mobile app using Expo, Firebase, and React Native to suggest homestays tailored to users

NJTransit Reward System | *HackRutgers*   **Feb. 2023**
- Revamped NJTransit's Reward system using React and Next. Utilized transit tendencies and trends to promote local businesses

Last Mile | *HackNJIT*   **Nov. 2022**
- Developed a React Native app with Bing Maps API, enabling a crowdsourced last-mile delivery solution. Won the best freshman hack

EXTRACURRICULARS

NJIT Kids Who Code | *Webmaster*
- Elected as the webmaster for the club. In charge of managing the club's website developed with React and NextJS

NJIT Robotics Club | *Software Team Member*
- Helped program, design, and build award-winning robots, earning the Excellence Award twice and qualifying for Worlds

Titanium Knights Robotics | *Former Captain*
- Previous Captain, Software Lead, and Hardware Lead. Led my team to qualify for an international competition in Chicago

SKILLS

Languages: Java | Python | C++ | Javascript | SQL | HTML | CSS | LaTeX

Libraries & Frameworks: Flask | ReactJS | NextJS | Pandas | Numpy | Tailwind-CSS | Flask-RestPlus | Flask-Limiter | SQL Alchemy | Marshmallow | Beautifulsoup | Selenium | Langchain

Other Tech: Firebase | JSON | Linux | Git | Version Control | Rest API | Android | MongoDB | Spotfire | NoSQL | AWS

CERTIFICATIONS

Kaggle: Python & Intro to Machine Learning | **NOCTI:** Pre-Engineering and Engineering Technology