Ari Kamat

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EDUCATION

New Jersey Institute of Technology (NJIT), Albert Dorman Honors College
Bachelor of Science in Computer Science and Applied Mathematics, May 2025 | **GPA: 4.0/4.0**
Relevant Coursework: Data Structures & Algorithms | Discrete Mathematics | Programming Language Concepts | Linear Algebra | Statistics | Calculus III

Bergen County Academies, Hackensack, NJ
Academy of Engineering and Design Technology, June 2022 | **GPA: 3.97/4.0**

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

AWARDS

1st Place NJIT Division in SpringForward CTF
Best Freshman Hack @ HackNJIT
National Cybersecurity Scholar
1st in AngstromCTF22, 2nd in redpwnCTF, & 6th in picoCTF2022
Won 7 awards in FTC Robotics
Best Mobile App @ HackBCA V
Silver Division in USACO
National Merit Finalist

EXPERIENCE

Merck, Technology Intern | June 2023 - PRESENT
- Leverage advanced technologies such as Node.js, React.js, AWS DynamoDB, Langchain, LLMs (Language Models), 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 processes.

Rutherford Education Center, Math Tutor | January 2023 - PRESENT
- Instruct and mentor K-12 students in math and standardized testing (SAT, ACT, NJSLA) as well as math competitions (AMC 8/10/12)

NJIT, Course Assistant for CS 113 | January 2023 - May 2023
- Assist students in completing Java assignments, ensuring comprehension

Morgan Stanley, Technology Analyst Intern | July 2021 - June 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

Self-Employed, Java Tutor | November 2020 - May 2022
- Instructed 2 students in Object-Oriented Programming, Java, and Java Swing

RESEARCH

Simulating Patient Behavior with Machine Learning Algorithms: The Case of an Ottoman Mental Institution
New Jersey Institute of Technology | February 2023 - PRESENT
- Implemented supervised learning and AI methodologies to create intelligent patient behavior within a Unity simulation of a mental asylum

PROJECTS

Franchise Data Provider | Personal Project (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 (2023)
- Designed and developed a mobile app using Expo and React Native, incorporating Firebase's authentication and Firestore database. Also utilized ML algorithms to suggest homestays tailored to user demographics.

NJTransit Reward System | HackRutgers (2023)
- Revamped NJTransit's Reward system using React and Next.js. Utilized user's transit tendencies and trends to suggest tailored local businesses to users. Presented this app to NJTransit during the sponsored hackathon.

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

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 | Hardware Team
- Helped design and build award-winning robots, earning the Excellence Award twice and qualifying for Worlds.

Titanium Knights Robotics | Current Hardware and Software Mentor, Former Captain
- Previous Captain, Software Lead, and Hardware Lead. Led my team to qualify for an international competition in Chicago.
- Published an Android scoring app for the Google Play Store.

CERTIFICATIONS

Kaggle: Python | Intro to Machine Learning ; **NOCTI:** Pre-Engineering and Engineering Technology ; **AWS**: Certified Cloud Practitioner (In Progress)