

# Tahasin Shadat

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## EDUCATION

**Northwestern University**  
*Bachelors of Science in Computer Science*

Expected Jun 2027 | Chicago, IL

## SKILLS

**Programming:** JavaScript, Python, Java, C++, Swift, Racket, HTML/CSS, TypeScript, SQL, C, G & M Code

**Technologies:** Git/GitHub, AWS, Microsoft/Google Suite, Firebase/Firestore, Google Colab, MongoDB, Anaconda, Jupyter

## EXPERIENCE

**Brookfield Asset Management, Software Engineering Intern** Jul 2024 - Sept 2024 | New York, NY

- Developed an AI investment assistant model using multiprompting to provide buy, hold, or sell recommendations
- Optimized internal RAG LLM by increasing s3 upload speed through implementing pooling and concurrency techniques
- Applied ARIMA, linear regression, and UCM models for stock predictions, applying regularization for feature selection
- Mapped predictive deep learning and VAR models, and predicted rent prices for specific industries

**NYC DCWP, NET/CRM Developer Intern** Feb 2024 - Jun 2024 | New York, NY

- Tested, integrated, and updated APIs using Postman, ensuring CRM functionality and reliable website performance
- Verified and documented .NET codebase updates, enhancing system efficiency and supporting smooth API operations

**Protomatica, Robotics & Software Engineering Intern** Mar 2023 - Jun 2024 | New York, NY

- Collaborated within a team to design and develop a robotic arm, also managing updates for the company website
- Engineered a laser-based measurement tool enabling instant room dimension calculations via a mobile app
- Built a Python system with Raspberry Pi to automatically level projected images and optimize projector placement

**Google, Student Engineer** Sep 2022 - Jun 2024 | New York, NY

- Completed ML projects in Python and Swift, gaining expertise in deep learning, data structures, and algorithms
- Presented technical projects and business ideas to Google mentors and investors, showcasing skills in modularization, OOP, async programming, and more, while receiving mentorship on career paths and technical interviews

**Code Nation, Fellow** Sep 2022 - May 2024 | New York, NY

- Learned skills in advanced web development and networking from software engineers at American Express & Google
- Engaged in hackathons to applying skills acquired through coding projects spanning multiple frameworks like React

**All Star Code, Teaching Fellow** Jul 2023 - Aug 2023 | New York, NY

- Coordinated with instructional team to deliver an in depth web development curriculum to 50+ high school students
- Recommended for the position based on prior year's performance and hosted office hours to support students

**Le Geste Jewelry, Data Analyst & Operations Manager Intern** Jul 2023 - Aug 2023 | New York, NY

- Developed an automated stock keeping unit system with python, enhancing inventory management efficiency
- Managed and maintained company website, product listings, and coordinated intern efforts for publishing listings

**Yokai Technologies, Full Stack Developer** Aug 2022 - May 2023 | New York, NY

- Created websites aiding the public by honing coding skills and collaborating effectively within structured teams
- Led development of many projects and collaborated to create lessons to teach programming skills to other members

## PROJECTS

**T.R.A.C.E.R (Tunnel Response and Assistance Companion with Enhanced Robotics), Raspberry Pi, Pi-Top, Arduino, Python, JavaScript, Flask, Tensorflow, Keras, Matplotlib, HTML, CSS, Tailwind, Google Colab, APIs** 🌐

- Developed and pitched an autonomous tunnel robot that utilizes 3 AI's and sensors for the Port Authority Challenge
- Detects emergencies, providing 2 way communication for authorities and civilians through a webserver and network

**Fitness101, JavaScript, HTML, CSS, Firebase/Firestore, Bootstrap, Materialize, REST APIs, JQuery** 🌐

- Social media website which provides personalized workout schedules, recipes, proper exercise form, and health advice
- Utilized databases and API's to give suggestions based off of user data in order to combat obesity

**AI Mario Kart Racer, Python, TensorFlow, Pytorch, Google Colab**

- Developed and trained a deep learning model with reinforcement learning to autonomously play Mario Kart
- Collaborated with Google software engineers to optimize and enhance the models mechanics and architecture

**Instagram Clone,**

*Python, Flask, MongoDB, PostgreSQL, JavaScript, Node.js, HTML, CSS, Bootstrap, Materialize, JQuery, REST APIs*

- Currently developing a full Instagram replica on web and mobile with a team of 3 in order to showcase coding skills