

# Tahasin Shadat

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## EDUCATION

Northwestern University, Bachelors of Science in Computer Science

Jun 2027 | Chicago, IL

## SKILLS

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

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

## EXPERIENCE

**Brookfield Asset Management, Incoming Software Engineering Intern** Dec 2025 - Mar 2026 | New York, NY

- Build MCP servers linking data to ChatGPT and Claude to power investor workflows with LangGraph
- Develop a full-stack tool linking LLM-built UIs to backend data systems and workflows with Loveable

**Amazon Web Services (AWS), Software Engineering Intern** Jun 2025 - Sep 2025 | Seattle, WA

- Optimized delete analytics processing from 8 hours to 1 minute using concurrency, batching, and Parquet compression
- Built a parallel analysis tool to extract delete metrics and improve system observability with granular visibility
- Automated host remediation prioritization for failed delete requests, reducing delete backlog and accelerating recovery

**Brookfield Asset Management, Software Engineering Intern** Jul 2024 - Sep 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 researching pooling and concurrency techniques
- Applied ARIMA, linear regression, and UCM models for stock predictions, applying regularization for feature selection
- Mapped out predictive deep learning models, and predicted rent prices for specific industries with forecasting

**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

## PROJECTS

**Multi Level Limit Order Book, C++, Google Test Suite**

- Building a multi-level order book engine with price-time-priority matching and full market, limit, and cancel workflows

**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

**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

**Realm Raiders, Java, AWT** 🌐

- Built a procedurally generated 2D roguelike with A\* pathfinding, enemy AI, weapon classes, and real-time combat