Rohan Shah

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EDUCATION

Purdue University — West Lafayette, IN
B.S. in Computer Science, Artificial Intelligence Track — *Sep. 2023 – June 2026*
- *Relevant Coursework*: Data Structures and Algorithms, Computer Architecture, Systems Programming, Object-Oriented Programming, Machine Learning, Linear Algebra, Discrete Mathematics

EXPERIENCE

Software Engineer Intern — Aug. 2024 - Sep. 2024
IDWR Multi-Family Office — *Remote*
- Developed a specialized application for employees using Python, reducing the time spent contacting professionals in the micro-cap sector.
- Worked closely with end-users to gather requirements, implement features, and iterate on feedback during each phase of the software development lifecycle, ensuring the application met user needs.

Software Engineer Intern — Jun. 2024 - Aug. 2024
ThetaRho — *San Jose, CA*
- Contributed to REST API development, documentation, and endpoint testing.
- Created a developer dashboard aimed at streamlining API/container testing, live application monitoring, and deployment processes.
- Gained skills in DevOps practices such as CI/CD pipelines, containerization, and infrastructure automation.

PROJECTS

algowar | *Spring Boot, Next.js, PostgreSQL, AWS Cognito/RDS/S3/ECR/Lambda/EC2, Docker, TypeScript* — WIP
- Developing a full-stack web app to gamify Leetcode-style coding prep through competitive head-to-head matches.
- Building a custom REST API with Spring Boot and PostgreSQL hosted on AWS RDS, implementing secure user authentication with AWS Cognito.
- Designing a modern Next.js front-end supporting real-time gameplay, full social system, leaderboard, and profile pages.
- Enhancing gameplay with containerized code execution using Docker, AWS Lambda, and AWS ECR, skill-based matchmaking, integrated chat functionality, and solo coding puzzles.

Ergon | *React, Express.js, PostgreSQL, AWS S3, OpenAI API* — 2024
- Developed a full-stack web application designed to store class notes and auto-generate summaries, flashcards, and study guides.
- Implemented a custom REST API with CRUD functionality, using AWS S3 for file storage and the OpenAI API for content generation.

C Compiler | *x86 Assembly, C* — 2024
- Developed a compiler for the C language, that generates x86-64 assembly code.
- Handles arithmetic, logical, and control flow operators, as well as array handling and function calls.

CERTIFICATIONS

Machine Learning Specialization — 2024
Stanford, DeepLearning.AI
- Built and trained ML models for prediction, classification, and clustering using techniques like linear/logistic regression, neural networks, and decision trees.
- Applied TensorFlow for multi-class classification, and developed recommender systems and a deep reinforcement learning model.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, JavaScript/Typescript, HTML/CSS, SQL
Frameworks: Spring Boot, Express.js, Flask, React, Next.js, Node.js, Maven
Libraries: pandas, NumPy, matplotlib, TensorFlow, Selenium, BeautifulSoup, Jsoup
Developer Tools: Git, AWS, Docker, Postman