

SHIVANSH PATEL

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EDUCATION

Iowa State University

Expected: Dec. 2025

B.S. in Computer Engineering with Minor in Data Science

GPA: 3.6/4.0

Relevant Courses: Data Structures, Algorithm Analysis, Embedded Systems, Discrete Math, Linear Algebra

EXPERIENCE

USDA-ARS Wise Lab

Ames, IA

Research Assistant, Bio-informatics Computing

Sept. 2022 – Present

- Developed network graphs in R to visually represent large protein interaction datasets, allowing rapid analysis
- Streamlined data comprehension and empowered the team to efficiently utilize experimental findings within the barley crop genome, focusing on proteins deemed crucial for further in-depth study and exploration
- Analyzed interaction data from protein effectors using a sum score approach to validate the identity of proteins countering the Blumeria fungus, guiding subsequent steps of research
- Managed laboratory tasks and gathered data from RNA samples, practicing precision and efficiency

PROJECTS

Paper Trading Investment App | *Java, Spring Boot, MySQL, REST API*

Fall 2023

- Led back-end development efforts for a team-created paper trading Android app to allow users to practice their stock trading skills by building and managing a virtual portfolio in a risk free environment
- Designed and implemented a RESTful API, ensuring efficient data management and integration within the application to hold real time market data and provide user stock portfolio management capabilities
- Spearheaded an agile development approach to ensure efficient progress, leveraging GitLab for streamlined team collaboration, testing, and CI/CD implementation in a simulated industry environment

Home Server | *Ubuntu, Docker, Tailscale*

Summer 2023

- Implemented an encrypted remote connection to the locally hosted server through Tailscale VPN, allowing me to manage and interact with locally hosted applications and data securely from any device
- Configured Docker containers to run various applications, optimizing resource utilization and enhancing overall server performance. This containerized approach allowed for easy deployment, scalability, and simplified maintenance of each application, isolating the containers and allowing a finite amount of resources

Twitter Giveaway Search | *Python, API Calls, OAuth*

Summer 2022

- Designed a system which pulls giveaway tweets related to a search query through the Tweepy API, automating the process of finding and participating in giveaways, saving users valuable time and minimizing manual effort
- Developed tweet evaluation logic to ensure compliance with entry requirements for the authorized user's account

EXTRACURRICULAR ACTIVITIES

Hack Club | *Member*

Aug. 2022 – Present

- Practiced programming expertise and teamwork skills at on-site Hackathons, rapidly developing and deploying innovative solutions within short time frames, fostering collaborative abilities and interpersonal skills.
- Achieved 3rd place at the Iowa State Hackathon through SuperStemRPG, a JavaScript project integrating programming challenges and RPG elements. Players script character movement, engage in combat through math problems, and strive to defeat bosses for an educational gaming experience

SKILLS

Languages: Python, Java, R, C, HTML, CSS, JavaScript

Tools: Git/GitHub, Visual Studio, Eclipse, Pycharm, MySQLWorkbench, Docker Engine, Ubuntu