

# SHIVANSH PATEL

Oswego, IL | (630) 677-0554 | ✉ [shivanshpatel123@gmail.com](mailto:shivanshpatel123@gmail.com) | 🌐 [ShivPatel123](#) | [/in/ShivPatel123](#) | 🌐 [shiv.foo](#)

## EDUCATION

### Iowa State University

*Expected: Dec 2025*

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

*GPA: 3.5/4.0*

Relevant Courses: Data Structures, Algorithm Analysis, Embedded Systems, Discrete Math, Computer Architecture

## EXPERIENCE

### Boeing

Ames, IA

Research Fellow

*Aug 24 – Present*

- Enhanced the design and user experience of an iOS mobile app that tracks driving behaviors through sensor, video, health, and vehicle data, integrating a Bluetooth-connected OBD dongle to improve user engagement
- Collaborated with a research team to optimize app design through testing to ensure accurate data collection

### Innergy

Sauk Rapids, MN

Junior Software Developer

*Apr 24 – Aug 24*

- Developed and modified frontend tools for a web-based 3D CAD modeling software using React, and TypeScript
- Gained experience in a professional development environment, working with the Kanban agile style of development to improve and adapt 20% of the essential feature stories needed for our software launch through the summer
- Created and ran 40+ test cases on multiple browser platforms with automated CI tests to ensure reliability

### USDA-ARS Wise Lab

Ames, IA

Research Assistant, Bio-informatics Computing

*Sept 22 – Jan 24*

- Constructed 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 to validate the identity of proteins countering the Blumeria fungus

## PROJECTS

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

*Aug 23 - Dec 23*

- Led back-end development for an Android app allowing users to practice stock trading with a virtual portfolio
- Designed and implemented a RESTful API, ensuring efficient data management and integration to hold 1000+ points of real time market data and provide users with 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*

*Jun 23 - Present*

- Deployed Docker containerized applications on an Ubuntu server, optimizing resource utilization and scalability
- Remotely accessed and administered the server via SSH, ensuring secure management of applications and services
- Hosted a range of self-hosted applications for media management, DNS filtering, and data storage, providing a customizable, private solution for remote access and home network optimization

## 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 demonstration 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, TypeScript, React

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