SHIVANSH PATEL

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EDUCATION

Iowa State University *Expected: Dec 2025*
B.S. in Computer Engineering with Minor in Data Science *GPA: 3.5/4.0*
Relevant Courses: Data Structures, Algorithm Analysis, Embedded Systems, Discrete Math, Computer Architecture

EXPERIENCE

IBM San Jose, CA
Software Engineering Intern *May 25 – Aug 25*
- Architected and deployed a full-stack application for IBM Concert using Python/FastAPI backend, React frontend, and PostgreSQL database, containerizing the solution with Docker and orchestrating deployment on OpenShift Container Platform (OCP) using Kubernetes, resulting in a production-ready demo showcased to enterprise clients
- Modernized IBM Concert's GenAI chatbot architecture by migrating existing tools to Model Context Protocol (MCP), reducing integration complexity and enabling third-party tool compatibility across the platform
- Redesigned the chatbot client using LangChain and LangGraph to implement a custom agent interface, improving response accuracy and enabling dynamic tool selection for complex multi-step user queries

Boeing Ames, IA
Research Fellow *Aug 24 – May 25*
- 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
Software Engineering Intern *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

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, SQL, React
Tools: Git/GitHub, Kubernetes, OpenShift, LangChain, Docker Engine, Ubuntu