

Owais Hassan

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Experience

Software Engineer, Toshiba Global Commerce Solutions — RTP, NC March 2026 – Present

- Aggregated transaction data with Python FastAPI to track customer spend metrics for Elera partners
- Designed and deployed Model Context Protocol (MCP) skills to optimize AI-assisted development workflows, reducing iteration cycles and improving code generation accuracy
- Collaborated with customers and stakeholders to deliver features for Elera's cloud-native retail platform, serving millions of users across enterprise partners including Costco, Best Buy, and Walgreens
- Developed RESTful APIs using Python and JSON to integrate frontend components with backend services, enabling scalable data exchange across microservices
- leveraged VueJS to build the UI for key features in Elera for Costco

Software Engineer, Cisco — RTP, NC August 2022 – March 2026

- Eliminated **8,000+** lines of redundant code by refactoring **100+** React components into shared Redux selectors, reducing complexity and improving maintainability.
- Developed Cisco Webex bots using Python to aggregate partner insights, parse relevant information, and reduce lookup time for time intensive tasks to a few seconds
- Shipped tools for Cisco Partners, and Business leaders, Renewal Managers, implementing **secure input validation, error handling, multi-step workflows**, and **API design/integrations** across React components, with feature-flagged roll out.
- Aggregated data from various APIs and endpoints through Python/FastAPI to return accurate and high quality insights regarding Cisco partner deals
- Tripled shipped code to 6 features per sprint by leveraging AI assisted tools such as Github Copilot, Cursor, and Windsurf to implement high level UI component designs and architecture
- Containerized frontend and backend services using **Docker**, ensuring environmental consistency across local development, CI/CD pipelines, and production deployments
- Improved Integration and unit test coverage to ensure all newly developed code within UI repo would meet at least 85% code coverage
- Populated dynamic client facing fields with backend data using JSON payloads
- Leveraged Agile and Scrum methodologies to roll out consistent features, clear backlogged tech debt, and communicate blockers in order to meet timelines for smooth deployment and deliver high quality software
- Collaborated with cross-functional teams such as product and design to translate requirements into technical designs
- Utilized Storybook components to follow UI/UX themes and patterns set across Cisco design guidelines

UX Design Engineer, UNC Pembroke Cybersecurity Club — Pembroke, NC August 2019 - August 2021

- Led 3 other Computer Science students in a volunteer effort to develop UNCP Bravemap, a progressive web app which allowed students to navigate to classes on campus using Google Maps API integration
- Designed and implemented UI with mobile first design in mind, and tested with a select group of other students

Skills

- **AI-Driven Development:** understanding of configuring MCP servers, GitHub Copilot, Claude, Codex, Gemini; used for documentation generation, test creation, and development acceleration
- **Frontend Engineering:** HTML, CSS, Javascript, TypeScript, Front-end Frameworks and tools like Angular, Redux, VueJS, Vite, NextJS, Figma
- **Backend/ Full Stack / Systems:** Docker, Node.js, Java, Linux/UNIX, Python, SQL, API integrations, microservices communication, CI/CD, API Development
- **Testing:** Experience with Jest, React Testing Library, Selenium, Cypress/Playwright, Vitest, SonarQube, Jenkins, Cucumber, improving system health, diagnosing and resolving issues, software test engineering

Personal Projects

Python Math bot

- Developed a full-stack web application for computing mathematical calculations using AI
- Implemented FastAPI AI service powered by claude to identify types of math problems and delegate each kind to a different deterministic math function, eliminating flakey LLM computation and saving tokens
- Designed responsive UI components with modern React patterns and state

Education

- Bachelor of Science in Computer Science, University of North Carolina at Pembroke, 2021