Hosam Khalafalla

Email:
errorcode3132@gmail.com
Location:
Richmond, Virginia

Professional Summary

Detail-oriented full-stack developer experienced in JavaScript, Python, and SQL. Proven ability to design efficient, scalable systems and automate workflows that save time and resources. Passionate about clean code, learning fast, and building creative tools that solve real-world problems. Strong foundation in computer science and software architecture.

Technical Skills

Languages: JavaScript, Python, Java, C, C++, SQL, TypeScript, Lua, HTML, CSS
Frameworks/Libraries: Node.js, React, Vue.js, Angular.js, Next.js, Express, Django, D3.js, Socket.io, jQuery, Lodash, Chart.js, Moment.js
Databases: MongoDB, PostgreSQL, MySQL, SQLite
Tools & Platforms: Git, Docker, AWS, Heroku, Fly.io Azure, VS Code, Office 365
Development Methodologies: Agile, Scrum, Test-Driven Development (TDD)
Other: Web Scraping, Automation, Game Development, Basic AI/ML

Projects

Together Storage Website/Platform
Vue.js, Node.js, PostgreSQL, Azure, Stripe, Clerk, Cal.com

- Developed a full-stack web platform for university students to schedule storage pickups, manage inventory, and process payments online.
- Streamlined booking, billing, and return coordination across multiple campuses, improving customer convenience and operational flow.

Automated Dispatch System
Node.js, Python, JavaScript, React, HTML, CSS

- Built a tool to automate dispatching and schedule creation, reducing daily scheduling time from 1 hour to under 30 minutes/week.
- Used at Your Way Transportation, improving operational efficiency.

Live Web Tracker & Production Tools
Python, Node.js, Vue.js, HTML, CSS

- Created a tracker that monitors external websites for updates and records changes to a database.
- Built live production support tools used during real-time events.

Inventory Management System
Python, Node.js, PostgreSQL, AWS

- Full inventory tracking and management tool with user roles and database synchronization.
- Supports adding, editing, and filtering stock data with authentication and backups.

Trailer Guesser – Multiplayer Web Game
Vue.js, Node.js, MongoDB, PostgreSQL, Azure

- Multiplayer guessing game where users guess movie release years based on trailers.
- Implemented real-time scoring and leaderboards using WebSockets, supporting concurrent multiplayer sessions

Experience

Software/Web Developer — Together Storage

Richmond, Virginia, September 2025 - November 2025

- Designed and developed a full-stack web platform enabling university students to schedule storage pickups, manage inventory, and complete payments online.
- Built and maintained backend services using Node.js and PostgreSQL to handle bookings, customer data, inventory tracking, and order status.
- Integrated third-party services including Stripe for payments, Cal.com for scheduling, and Clerk for authentication.
- Implemented automation tools to coordinate pickup, storage, and return workflows, reducing manual coordination and operational friction.
- Deployed and maintained production infrastructure on Azure, ensuring reliability and scalability during peak academic periods.
- Collaborated directly with operations staff to translate real-world logistics needs into software solutions.

Software Engineer and IT Help Desk Support — Your Way Transportation Inc

Richmond, Virginia, January 2021 - June 2022

- Built and deployed the automated dispatch scheduling system (see Projects).
- Maintained internal web tools.
- Provided organization-wide IT support and troubleshooting.

Full Stack Developer — Freelance Contract Work Across Industries

May 2019 - Present

Routinely created software and bots to suit the client's requirements, abiding to deadlines and criteria. Some of my projects include:

- Delivered web tools, chatbots, bots, scrapers, and custom websites.
- Worked closely with clients to meet deadlines and feature requirements.

Education

Virginia Tech

Blacksburg, Virginia, December 2025

Bachelor of Science in Computer Science

Matoaca High School (Information Technology Specialty Center)

Chesterfield, Virginia, June 2022

Earned an Advanced High School Diploma

Languages

- English (Native)
- Arabic (Native)

Thank You! References are available upon request