Hamza Khan

✉ hamza-k18@hotmail.com
🔗 LinkedIn
🔗 GitHub
📍 Atlanta, Georgia
📞 (423)-227-9527

Skills Summary

Languages	Java, C++/C, C#, Python, JavaScript, SQL, HTML/CSS
Technologies	AWS, Figma, GitHub, WebRTC, AgoraRTM
Frameworks/Libraries	React.js, Next.js, Vue.js, JQuery, Java Database Connectivity (JDBC), Javalin (REST API framework)

Experience

Analytica Systems
San Jose, California

Front-End Developer | JavaScript | React | Vue | Git
August 2020– December 2023

- Architected and built **user-centric** web applications utilizing modern **JavaScript frameworks** like **React.js** or **Vue.js**.
- Implemented **component-based architecture** for maintainability and reusability.
- Developed **performant and accessible user interfaces** (UIs) leveraging the latest web standards - HTML5, CSS3, and **preprocessors** (SASS/LESS) for efficient styling and maintainability.
- Prioritized accessibility by adhering to **WCAG guidelines** and implementing features like keyboard navigation and screen reader compatibility.
- Employed **version control systems** (Git) for collaborative development and code management.

Curiato Inc
Waterloo, ON

Software Development Intern | Python | API | Internet Of Things | Agile Methodology
May 2019 – July 2020

- Designed and implemented core functionalities using **Python** for a **healthcare Internet-of-Things (IoT)** application.
  - This included data acquisition from pressure and temperature sensors embedded in hospital bed sheets, real-time data processing, and visualization for patient monitoring and early detection of pressure injuries.
- Utilized Python libraries like **NumPy and pandas** to efficiently clean, analyze, and visualize sensor data.
- **Created informative dashboards** to display patient vitals and pressure distribution patterns, aiding medical professionals in proactive patient care.
- **Employed Agile development** methodologies within a **startup environment**.

Projects

WebRTC Video Program

Communication | JavaScript | BootStrap | JQuery | WebRTC

- Designed and developed a **real-time** video chat application using **WebRTC** for efficient **peer-to-peer communication** and utilized the Agora RTM **SDK** as a **TURN Server** for communication between users on different networks.
- Implemented **lobby functionality** allowing users to create and share unique **user-specified** IDs for inviting participants to join video calls.
- Built user controls for **dynamic** audio and video management, enabling muting and unmuting of microphone and camera.

Flight Tracker Application

Data Management | Java | SQL | Java Database Connectivity | Network Connectivity

- Developed a flight tracking application utilizing **Java** as the **backend**, Java Database Connectivity (**JDBC**) for connecting the backend to the **SQL Database**, and Javalin to handle **REST API** functionality for the program.
- Implemented functionalities to:
  - Search and retrieve flight details based on **user-specified criteria**.
  - Manage flight information, including updates and new flight entries.
- Utilized the **Data Access Object** (DAO) design pattern to ensure data **persistence** and interaction.

Portfolio Website

Personal Project | Next.JS | Tailwind | Vercel

- Developed a personal portfolio website showcasing my skills and experience. Utilized **Next.js**, a React **framework** for **server-side rendering** (SSR) and static site generation (SSG), to create a performant and **SEO-friendly** web experience.
- Designed and implemented a visually appealing and **responsive** user interface (**UI**) using **Tailwind CSS**, a utility-first framework. Tailwind's extensive pre-built classes streamlined development, ensuring consistency and rapid iteration during the design process.
- Deployed the website to **Vercel**, a **serverless platform**, for a **seamless** and automated **deployment** process. Vercel's global network infrastructure guarantees **high performance** and **scalability**, ensuring a **smooth user experience** for visitors worldwide.

Education

Bachelor of Science (Computer Science)
Kennesaw, Georgia

Kennesaw State University

Relevant Coursework: Concepts of Programming Language, Computer Graphics and Multimedia, Artificial Intelligence, Parallel & Distributed Computing, Cloud Computing, Intro to Database Systems