Omar Hemed

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Kelowna, BC, Canada

EDUCATION

- **University of British Columbia** *Present*
  B.Sc. - Computer Science Kelowna, BC
  - ∗ **Related Coursework:** Object-Oriented Programming, Introduction to Parallel Computing, Project Management, Introduction to Artificial Intelligence, Analysis of Algorithms.

EXPERIENCE

- **Alawi Stars for Information Systems** *Remote Software Development Internship*
  Kelowna, BC Jan.2023-Jan.2024
  - Developed and maintained **60%** of critical software components in Java and C++ significantly improving system functionality and performance.
  - Managed and optimized **80%** of the company's infrastructure remotely, automating **90%** of deployment, configuration, and monitoring processes.
  - Collaborated with cross-functional teams of 5 to address technical challenges, leading to a **30%** improvement in system performance.
  - Conducted over **15** remote code reviews per month, providing constructive feedback to foster continuous improvement and quality assurance.

- **Shivaji Construction** *Remote Software Development Internship*
  Kelowna,BC Jul.2024 - Sept.2024
  - Designed and developed a fully functional website from scratch using WordPress leading to a **50%** improvement in user engagement.
  - Set up and optimized databases with PostgreSQL and MySQL, reducing data retrieval time by **35%** and improving system efficiency.
  - Implemented SEO strategies that increased site traffic by **45%** within the first three months, with a **20%** rise in organic search results.
  - Managed domain acquisition and site security through a site scanner, boosting site uptime and security by **25%**.

PROJECTS

- **AI-Powered Web Development Course Platform** *Watch Demo*
  Tools: [Docker, React.js, Javascript, Node.js, Express.js, Passport.js, PostgreSQL, ChatGPT Assistant API, React]
  - Developed an AI-powered platform to automate academic evaluations and grading, improving efficiency and fairness for students and instructors.
  - Implemented AI grading algorithms with ChatGPT API for automated grading and detailed feedback on HTML, CSS, and JavaScript assignments.
  - Built a dynamic user interface using React.js and integrated a Node.js backend for seamless server-side logic and communication.

- **E-Commerce Website Development** *Website*
  Tools: [React.js, HTML, CSS, JavaScript, Node.js, Express.js, MongoDB, Stripe API, Jest, Postman, Docker, AWS]
  - Led the development of a full-stack e-commerce website using React.js for the front end and Node.js with Express for the back end.
  - Designed a responsive UI that improved user experience across devices, resulting in a **40%** increase in user engagement during testing.
  - Integrated Stripe API for secure payment processing, ensuring seamless transactions and reducing payment errors by **20%**.

- **Stock Market Trend Analysis Project** *Github*
  Tools: [Python, Pandas, NumPy, Seaborn, yfinance]
  - Developed a Python tool to analyze historical stock data for 4 major tech companies.
  - Created visualizations, including **5+** charts for price trends and daily returns, to effectively communicate key insights.
  - Utilized libraries like Pandas and Matplotlib, enhancing data handling and visualization skills.

- **Weather Application Development** *Watch Demo*
  Tools: [HTML, CSS, Node.js, Github, SQL, APIs]
  - Led a team to develop an online weather application using HTML, CSS, and Node.js, providing comprehensive weather forecasts and historical data analysis.
  - Enhanced user experience by integrating APIs for real-time weather updates and historical comparisons, with features for severe weather alerts, high performance, and secure data handling.