

# Joshua Debele

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## EDUCATION

### University of Calgary

*Bachelor of Science in Software Engineering*

Calgary, AB

*Sept. 2021 – Present*

## EXPERIENCE

### E-learning and Web Development Coordinator

May 2022 – August 2022

*The Immigrant Education Society*

*Calgary, AB*

- Utilized HTML, CSS, PHP and JavaScript to troubleshoot and create new content on the Course Management System, Moodle.
- Created weekly backups of existing e-learning programs, assessing current online processes and establishing new ones
- Designed and developed a user-friendly front-end application for resume creation using HTML, CSS, and Javascript. Application was used and tested by the company in aiding newcomers in Canada to build a resume during one-on-one counselling sessions.
- Implemented rigorous unit and integration testing to ensure website functionality.

## PROJECTS

### Obituary Project | Terraform, AWS, React, CSS, Python, OpenAI, Cloudinary, Git February 2023 – April 2023

- Developed a full-stack web application using Cloudinary to store images and Open AI for dynamic text generation with React and CSS for the frontend and Python for the backend.
- Used Terraform to define and manage AWS resources using a configuration file written in HashiCorp Configuration Language (HCL).
- Implemented Git/Github for effective collaboration within a team environment.
- Integrated DynamoDB as a backend database and AWS Step Functions for the project's workflow orchestration and seamless coordination of various backend processes and services involved in generating personalized obituary cards

### Flight Registration System | Java, Java GUI, MySQL, Design Patterns September 2023 – December 2023

- Applied design patterns such as Singleton, Observer, and Strategy to enhance the scalability and maintainability of the system.
- Implemented a robust backend with MySQL as the database management system to store and manage flights, tickets, and user information
- Developed functionalities for handling flight registration, ticket booking, and cancellation processes using Java.
- Prepared detailed documentation outlining the system architecture, design choices, and code structure for future reference and maintainability.

### Ticketing App | NextJS, TailwindCSS, MongoDB December 2023 – January 2024

- Leveraged NextJS and Tailwind CSS to craft a modern and user-friendly frontend, ensuring an intuitive experience for end-users.
- Implemented MongoDB Atlas as the backend database, optimizing data storage and retrieval for efficient ticket management.
- Implemented RESTful APIs for effective communication between the NextJS frontend and MongoDB Atlas backend.
- Utilized MongoDB Atlas's robust features to ensure data integrity and reliability, minimizing the risk of data loss.

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, C#, PostgreSQL, MySQL, JavaScript, HTML/CSS, PHP

**Frameworks:** React, Node.js, Django, Next.js, Vite.js, Tailwind CSS, JUnit, WordPress

**Developer Tools:** Git/Github, Agile, Docker, Kubernetes, Azure, Google Cloud Platform, AWS, DevOps, .NET, Terraform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Firebase, Linux, MacOS, Windows, Microsoft Office

**Understanding of HTTP Protocols:** Proficient in the theoretical understanding of HTTP and web protocols, including their application in the networking layers. Well-versed in request methods, status codes, and how routers and servers communicate over the web.

**Libraries:** Pandas, NumPy, Matplotlib

**Soft Skills:** Problem Solving, Communication, Teamwork, Time Management, Attention to Detail, Creativity