Sultan Alzoghaibi

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EDUCATION

University of Calgary Calgary, AB

Bachelor of Finance, Minor in Computer Science — GPA: 3.64 *Sep. 2022 – Dec. 2026*

Relevant Courses
Programming in Python (A-), Object-Oriented Programming in Java (A+), Discrete Math (B+), Data Structures and Algorithms (In Progress), Software Engineering (In Progress), Artificial Intelligence and Machine Learning (Spring 2025)

EXPERIENCE

Full-Stack Software Developer Jan 2025 – Present

TechStart Club — GitHub *University of Calgary, AB*

- Contributed to migrating from React with CSS to **Next.js with Tailwind CSS**, utilizing its SSR capabilities to improve SEO by an estimated **15-40%** and initial page load times by **20-50%**.
- Currently, integrating a **Stripe API** to handle payments, **to reduce the transaction time by 2 minutes** compared to Google Forms
- Collaborated within a **team of 5**, enforcing Git best practices to ensure **0 bugs are pushed to the main** branch, resulting in higher code quality and smoother releases.

VP UX/UI Design Aug 2024 – Present

TechStart Club *University of Calgary, AB*

- Mentored by a graduate UX/UI designer on best design practices, then guided TechStart's project members in enhancing design skills, conducting user research, and implementing **AGILE UX/UI** processes, receiving an **83% positive feedback rate** on the support provided.

PROJECTS

Next.js Personal Portfolio | *Next.js, Motion, Playwright, TypeScript, Figma, Tailwind CSS, Aceternity UI, React*

- Developed a personal site deployed on Vercel using Next.js 15, TypeScript, and Aceternity UI, achieving **97% performance**, **93% best practices**, and **91% SEO** according to PageSpeed Insights.
- Configured the system to automatically generate project cards with dedicated URL pages by **modifying ONLY the database**, utilizing **React props** and **Next.js Dynamic Routes**. This solution eliminates the need for manual code updates and improves scalability for approximately **30+ projects with a dedicated URL page**.
- Designed a Figma prototype for the frontend, streamlining development and reducing style-related code changes by **80%**, accelerating UI iteration speed.

Links: sultan-alzoghaibi.com | GitHub | Figma Design

OOP Pacman with Smart Ghost Pathing | *Java, JavaFX*

- Researched and implemented the real Pacman game logic using JavaFX, inheritance, polymorphism, and encapsulation, allowing Pacman to run at **240 ticks per second** and earned a grade of **102.3%**.
- Created a Figjam diagram to visualize the game logic and inheritance structure for easier collaboration.
- Contributed to **85% of the codebase**, handling the most complex logic while setting up a GUI that is synced with a backend 2D char array, thus **making it easier for inexperienced teammates** in JavaFX to contribute to the codebase.
- Developed Smart ghost pathing using a HashMap to store directions and tile positions, then filtering invalid moves and selecting the tile with the shortest linear distance to the target tile, ensuring **O(1) time complexity**.

Links: YouTube Link | GitLab | Figjam logic planning

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Java, Python, HTML/CSS, C, R
Frameworks: React, Next.js, Tailwind CSS, Motion, JUnit, Node.js
Libraries & Tools: Figma, Git, Aceternity-UI, Playwright, Shadcn-UI, Visual Studio Code, IntelliJ, PyCharm, Docker
Achievement: 2nd Place out of 43 Teams | Div 2 | Alberta Collegiate Programming Competition 2024