Brandon Mai

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Technical Skills

Languages: Python, Elixir, SQL, HTML/CSS, JavaScript, Java, Bash, C, C++
Tools and Technologies: Git, Kubernetes, Docker, PostgresQL, GitHub, Postman, GraphQL, Datadog, BugSnag

Experience

Software Developer in Test   Jan. 2025 – Aug. 2025
theScore / PENN Entertainment   *Toronto, ON*
- Refactored and optimized sorting logic for Game Provider Filters in **Elixir**, and deploying to staging with **ArgoCD**.
- Utilized **Datadog** and **Bugsnag** dashboards to monitor and debug defects raised in production environment.
- Developed an internal tool using **HTML**, **JavaScript**, and **CSS** to simplify manual QA efforts, increasing efficiency by **30%**.
- Conducted white-box testing by querying **PostgreSQL** databases and running Elixir scripts in **Kubernetes** pods.
- Reported over **50+** P1 bugs and resolved over **5000+** test cases during functional and regression testing.
- Led regression testing, coordinated discussions on blockers, and assessed ticket deferrals based on sprint and release cadence.

Sales Associate   Apr. 2024 – Sept. 2024
Nike   *Toronto, ON*
- Held **#1** in sales at Nike Canada, selling over **$300K+** in apparel and footwear over a three month period.
- Always ranked in the top **20%** of sales associates within the district, earning highest commission.
- Consistently surpassed KPIs, achieving the highest Sales and Transactions Per Hour (SPH, TPH) in the country.

Projects

Badminton Club Database Website | HTML, CSS, JavaScript   Apr. 2024
- Developed a mock database management system for players, coaches, and admins to streamline booking process.
- Collaborated with a team of four to implement a scrum-based, test-driven development process over three iterations, continuously refining features and tasks through four months of development and overall Software Development Lifecycle.
- Integrated and automated project management tools, including product backlogs, and test plans, adhering towards user requirements within an agile environment.
- Implemented role-based account types (coaches, members, staff, and treasurers) with functionalities such as login, sign-out, account sorting, managing member data, and accessing coach schedules and financial information.

Mai Fitness | React, JavaScript   Jan. 2024
- Developed a dynamic Fitness Gallery website with **React** and **JavaScript** for a responsive and user-friendly interface.
- Utilized React hooks to fetch real-time data from RapidAPI and Youtube API, enabling users to filter and suggest exercises.
- Built complex, interactive animations using React hooks, including an infinite loading bar and dropdown buttons, to enhance user engagement and site responsiveness.

Boggle | Elixir   Jan. 2024
- Developed a DFS based Boggle word solver, designing a recursive algorithm with backtracking to explore all word combinations efficiently on a 2D board while tracking visited cells.
- Leveraged **Elixir**'s MapSet for efficient word validation and implemented prefix pruning to terminate invalid search paths early, optimizing performance for large word lists.

Education

Toronto Metropolitan University (*Formerly Ryerson University*)   Sept. 2022 - Apr. 2027
B.Sc in Computer Science   *Toronto, ON*
- Awards: Entrance Scholarship (95%+)
- Relevant Courses: Data Structures, Comparative Programming Languages (Elixir), Object Oriented Programming, Web Systems Development, Computer Architecture, Introduction to Software Engineering (agile), and Database Systems.