Andrew Bovbel

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EDUCATION

McMaster University   Hamilton, ON
Bachelor of Engineering in Software, 3.9 CGPA   *Sep 2021 – May 2026*

SKILLS

Languages: JavaScript/TypeScript, HTML/CSS, Java, Python, C, Swift
Technologies: Unix, React, Redux/Redux Tool Kit, Jest, JUnit, FastAPI, Docker
Relevant Coursework: Software Development (Design Patterns, UML's, Architecture), Data Structures and Algorithms, Integrated Engineering Design Projects, Mathematics of Machine Learning, Databases, Concurrency

EXPERIENCE

Software Engineering TA   September 2024 – Present
McMaster University   *Hamilton, ON*
- COMPSCI 1MD3   Intro to Programming TA under Professor Vincent Maccio.
- COMPSCI 2ME3   Intro to Software Development TA under Professor Abdelkhalek.

iOS Mobile Software Engineer   May 2024 – Aug 2024
Intuit TurboTax FullService US   *Toronto, ON*
- Spearheaded development for the **Guided Checklist experience**, a feature to guide users upload necessary documents to file taxes on their behalf.
- Configured, implemented, and built logic on top of the **Unified Upload Widget**, a global widget for uploading any tax document to the application.
- Learned and used **concurrent Swift principles** that enabled our PubSub, and Event protocols.

Frontend Software Engineer   Jan 2023 – Dec 2023
Intuit Quickbooks ProTax   *Toronto, ON*
- Directed the development initiative for a sophisticated debugger within the ProTax application, utilizing **Splunk** for real-time data retrieval and capturing recent user actions.
- Engineered a robust data storage library utilizing **Redux Toolkit**, and strategically employed **Code Splitting** principles to optimize load time performance.
- Restructured highly coupled React components into **modularized widgets** by leveraging TypeScript, facilitating seamless integration of our components to other development teams within Intuit.
- Enhanced operational excellence by modernizing the methodology of retrieving customer subscription data through the implementation of **GraphQL**.
- Developed and designed ProTax Labs, a settings page for newly added features.
- Conducted "Follow Me Homes" with Product Managers to collect feedback from customers using new features in ProTax.
- At Intuit's Global Engineering Days, I designed and implemented a FastAPI endpoint capable of comparing JSON-formatted tax forms with GenAI, providing a summary of the year-to-year differentials to clients.
- Conducted regular bug fixes, and helped release code to production using development tools at Intuit.

Tutor   Dec 2021 – Present
Private Business   *Hamilton, ON*
- Tutored approx. 50 university students in Linear Algebra, Calculus, Physics and Chemistry.

PROJECTS

Maze Runner | *Java, JUnit, Maven*   Jan 2024 – Present
- Designed and implemented a maze runner program capable of interfacing maze text files, and computing optimal paths from designated starting points.
- Utilized the Tremaux, Depth-First Search (DFS), and Right Hand algorithms to implement path computation within the maze runner program.
- Utilized Strategy and Factory design patterns to achieve concise code.

Guess That Song! | *Python, Spotify API*   Aug 2023
- Developed a terminal based Guess That Song! game.
- Consumed Spotify's API to achieve the business logic. Interfaces through a playlist of your choice.