

Josh Bacon

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EDUCATION

University of New Brunswick

B.S. in Software Engineering; GPA: 3.9

Fredericton, NB

Expected May 2029

Mount Allison University

B.S. in Computer Science; GPA: 3.8

Sackville, NB

Class of 2023

EXPERIENCE

Undergraduate Teaching Assistant

Department of Computer Science, University of New Brunswick

Sept 2026 – Present

Fredericton, NB

- Monitored weekly labs for 40+ students in scripting and solution automation
- Graded and provided feedback on programming assignments in Python, focusing on complexity analysis and code quality

Business Reporting Specialist

Kent Building Supplies

May 2021 – November 2025

Dartmouth, NS

- Built a product management workflow using PowerApps and PowerAutomate, clearing over \$250,000 of dead stock
- Collaborated with 3+ departments concurrently to test and iterate custom process solutions
- Taught peers to utilize the Power Platform tools, saving hours of weekly recurring work

PROJECTS

Vestlly | TypeScript, React, Electron, Node.js, Python, Flutter, Dart

Sept 2025

- Used genetic algorithms to optimize stock evaluation functions and automated trading using Python
- Developed a desktop Electron application to analyze stocks and adjust automations
- Created a mobile app with Flutter to track portfolio transactions and performance

Code Gambit | TypeScript, React, Redux, Node.js

Sept 2025

- Designed and developed a React web app that allows users to play chess by entering commands into a terminal
- Created a custom language on top of TypeScript to interact with the chess board, including full documentation
- Allows users to write scripts to execute move sequences based on custom logic

R.A.M. | Flutter, Dart, PHP, MySQL, nginx

Feb 2025

- Built a full-stack social media mobile app with Flutter centered around technology related humour
- Created a self hosted backend using nginx that runs a PHP API and a MySQL database

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, HTML/CSS, Dart, Java, PHP, SQL

Frameworks/Libraries: React, Node.js, Electron, Flutter, Tailwind, nginx

Developer Tools: Git, Docker, Linux, PowerApps, PowerAutomate, PowerBI

Coursework: Data Structures & Algorithms, Operating Systems, Databases, Computer Networks, AI for News-Based Forecasting

ACTIVITIES

Cyber Security Club

University of New Brunswick

Sept 2025 – Present

Fredericton, NB

- Attend weekly meetings to practice Capture The Flag (CTF) challenges
- Participated in informal CTF competitions