

# Adam Badar

adam.badar@mail.utoronto.ca | +1 (905) 409 4932 | Github | LinkedIn

## EDUCATION

**UNIVERSITY OF TORONTO** | BS COMPUTER SCIENCE

September 2021 - Present

Focus: Software Engineering, Statistics & Entrepreneurship

## EXPERIENCE

**MAPLE BIT SERVICES** | SOFTWARE DEVELOPER / WEB-DEV

Oct. 2021 - Present

- Built and managed our company website using the **MERN** stack and hosted it on **AWS**, driving a **20%** annual increase in profit, attracting 2000+ monthly viewers, and generating over **\$30,000** in revenue.
- Developed custom software solutions using Python, **Pytesseract**, and **Pandas** for automating document processing and data analysis tasks, streamlining workflows and enhancing operational efficiency.

**ENTREPRENEURSHIP ASSOCIATION** | VICE-PRESIDENT - BUSINESS DEVELOPMENT

Jun 2023 - Present

- Led a team of 6 members, overseeing outreach to multiple organizations and venues, ensuring effective communication and task management to drive event success.
- Developed and maintained strategic partnerships, enhancing the association's network.

**UOFT CRYPTO CLUB** | VICE-PRESIDENT

Oct 2022 - Present

- Helped lead a 200+ member organization, orchestrating Fireside chats with industry leaders, including the **CEO of Bitfarms**, largest BTC Miner, and the **COO of Coinsquare**

## PROJECTS

**FINLEARN** | NODE.JS, EXPRESS, DOCKER, MONGODB, REACT, POSTMAN, TYPESCRIPT, CI/CD, MERN, FIGMA, GITFLOW, NEXT.JS

- Developed a financial literacy platform, through expert-curated lessons and a sandbox environment to test user learning, offering a zero-liability learning solution.
- Delivered a functional web application with infrastructure to support over **10,000 users**.

**LIFOMATION** | ANGULAR, EXPRESS.JS, SEQUELIZE ORM, POSTGRESQL, ELASTIC SEARCH, DOCKER, AUTH0, AWS

- Developed a website for storing and managing your important documents. With advanced search, expiry reminders, and sharing.
- Integrated real-time updates using Elastic Search, OCR and webhooks, ensuring users receive notifications and updates on shared documents.

**LANGCHAIN - OPENSOURCE** | PYTHON, ALPHAVANTAGE, POETRY, DOCKER

- Contributed to **Open Source** with over **100,000** dependents, by implementing AlphaVantage API for enhanced financial data analysis.

**WEB GALLERY** | SEQUELIZE, JAVASCRIPT, MYSQL, HTML/CSS, POSTMAN, GEN AI, EXPRESS, NODE

- Developed a web app supporting multiple users and galleries, with secure authentication and authorization policies, implemented **REST API FOR CRUD**.

**PINTOS** | OS DEVELOPMENT AND KERNEL PROGRAMMING, GDB

- Implemented OS components: thread management, concurrent programming, memory management, file system design, with insights into CPU utilization, user v kernel modes, and disk I/O optimizations.

**COURSE PLANNER APP** | JAVA, ANDROID STUDIO, GIT, FIREBASE, JIRA, FIGMA

- Designed backend architecture adhering to **OOP principles** for enhanced code reusability and scalability.
- Developed a login module using **Model-View-Presenter (MVP)**, achieving full line coverage with **JUnit** and **Mockito** frameworks for comprehensive functionality testing.

**CONCURRENT SYSTEM MONITORING TOOL** | UNIX, SHELL SCRIPTING, C, BASH, MULTI-THREADING

- Captured system utilization metrics in **C**, utilizing multiple processes and inter-process communication via **pipes**.

**WORKX** | TYPESCRIPT, TAILWIND, PRETTIER, PLASMO

- Developed a Chrome that serves as a distraction blocker for social media platforms like YouTube and Instagram, filtering out comments, shorts, and other distractions to enhance productivity.

## SKILLS

### LANGUAGES:

Python • Java • JavaScript/Typescript  
HTML/CSS • C/C++ • C# • Yaml  
Kotlin • R • SQL/NoSQL • Bash • PHP  
GraphQL • Go • ASM

### FRAMEWORKS:

**React.js** • **Node.js** • Next.js • Vue.js  
Express.js • **React Native** • Electron  
Flask • Django • Webpack • Babel  
Angular.js • Springboot • ASP.NET

### DATABASES:

MySQL • Neo4j • MongoDB • Redis  
Firebase • Graph DB • Amazon S3  
Microsoft SQL Server • PostgreSQL

### TOOLS:

Docker • Kubernetes • Kafka • Jira  
**Terraform** • **Ansible** • Selenium • Pandas  
Github • Git • SVN • Gitlab • Postman  
Vim • Linux • Github Actions • Clerk  
TCP/IP • DNS • OpenSSL • SSL/TLS  
Wireshark • OAuth • Power BI  
Jenkins • Jupyter • Android Studio  
ElasticSearch • PyTesseract • PyPDF2

### CLOUD:

Azure • AWS • GCP • DigitalOcean

## COURSEWORK

**Machine Learning & AI**

**Software Engineering**

**Android development**

**Web development**

**Blockchain and Technologies**

**Computer Networks and Security**

Theory of Computation

**Algorithms and Data Structures**

Introduction to Databases

Startup Sandbox & Tech Innovation

**Operating Systems**

Computer Organization & Hardware

Human Computer Interaction (UI/UX)

Software Tools and Systems

Functional Programming

OOP Programming

Calculus I & II

Introduction to Numerical Analysis

Linear Algebra I & II

Introduction to Probability

Discrete Mathematics

## HACKATHONS

Hack the Valley

HackTo