

Ahmad Allabadi

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EDUCATION

Bachelor of Applied Science

Sep. 2022 – May 2026

McMaster University - Computer Science; GPA 4.0

Hamilton, ON

- Awarded President's Entrance Scholarship and Gupta Family International Scholarship, recognizing academic excellence.
- Completed coursework in core CS topics such as Operating Systems, Algorithms, Computer Architecture, and Neural Networks, strengthening foundational and advanced skills.

EXPERIENCE

Founder & Lead Developer

Aug 2025 – Present

MacMarketPlace | JavaScript, React, Vite, TailwindCSS, NoSQL, Algolia, Git, GCP

Hamilton, ON, Canada

- Founded and led a team of 4 to launch a McMaster-exclusive marketplace using `@mcmaster.ca` accounts.
- Acquired **200+ users** and **70 listings within 48 hours** of launch.
- Integrated **Algolia** with real-time Firestore syncing for instant search.
- Built low-latency messaging handling **50+ messages daily** with sub-second latency, unread counts, and media support.
- Architected a scalable Firebase backend with zero downtime at launch.
- Implemented end-to-end authorization and optimized DB structure to support thousands of future users.

Teaching Assistant

Jan 2025 – Present

Department of Computing and Software, McMaster University

Hamilton, ON, Canada

- Led weekly tutorials and created practice material for 1DM3, 1MD3, 2AC3, 2ME3, and 3BB4.
- Supported 150+ students through office hours and guidance in both theory and programming courses.
- Worked with instructors to improve grading workflows and feedback turnaround.

Application Developer

May 2024 – Sep 2024

Qatar Fuel Additives Company Limited

Remote

- Mapped the full recruitment workflow and translated HR requirements into clear technical specs for the dev team.
- Supported SAP HCM integration by aligning data fields and validating sync between the recruitment system and SAP.
- Designed wireframes and improved UI flows for candidate review and job posting pages.

PROJECTS

MacSocial | *React, Firebase, Firestore, Storage, Auth, FastAPI, Python, GCP*

- Built a full-stack social platform for campus clubs with React and Firebase, supporting posts, events, messaging, media uploads, onboarding flows, and real-time updates.
- Built a personalized feed using similarity, recency, engagement, and diversity scoring to rank posts for each user.

Real vs AI Image Classifier (CNN-ViT Hybrid) | *PyTorch, Python, NumPy, Matplotlib, GCP*

- Built a CNN-ViT hybrid model to classify real vs AI images with 90% accuracy on a 60k-image dataset.
- Trained on GCP GPUs with preprocessing and augmentation to improve generalization and evaluation reliability.

Car Image Classifier | *TensorFlow, Keras, Pandas, NumPy, Matplotlib, Python*

- Built a CNN-based image classifier in TensorFlow achieving 90+ percent accuracy using augmentation and metric visualization.

LaTeX Cheat Sheet AI Generator | *FastAPI, React, Tailwind, OpenAI API, PDF, LaTeX, Python*

- Built an AI tool that turns lecture PDFs into LaTeX cheat sheets using FastAPI for parsing, summarization, and rendering.
- Developed a React frontend with multi-file uploads and real-time PDF previews powered by CORS-safe Firestore streaming.

Overleaf AI Assistant Extension | *JavaScript, Chrome API, GPT API, Node.js, LaTeX*

- Built a Chrome extension that integrates GPT-based LaTeX generation directly into Overleaf, with secure Node.js backend processing, DOM parsing, and real-time code injection to enhance document creation speed and interactivity.

TECHNICAL SKILLS

Languages: Python, Java, C, JavaScript, TypeScript, HTML, CSS, SQL (PostgreSQL, MySQL, Db2), LaTeX

Frameworks/Tools: React, Node.js, FastAPI, Flask, Django, Firebase (Auth, Firestore, Storage), Tailwind CSS, Docker, Kubernetes, JUnit, REST APIs

AI/ML: TensorFlow, Keras, NumPy, Pandas, Matplotlib, Scikit-learn, OpenAI API (GPT)

Software Design: UML, SDLC, Agile, Waterfall, V-Model, CI/CD, TDD, Functional Programming, REST API Design

Cloud Platforms: AWS, Google Cloud Platform (GCP)

Platforms: Linux, Windows, macOS