

# Wacil Voltaire

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## EDUCATION

### University of Massachusetts Amherst

Amherst, MA

*Bachelor of Science in Mathematics and Computer Science*

*Expected Dec. 2025*

- Relevant Coursework: Data Structures, Web Programming, Algorithms, Statistics I, Computer Systems Principles, Mathematical Modeling, Intro Scientific Computing
- Activities: HackUMass IX, Boxing Club, Amherst Intramural Basketball

## TECHNICAL SKILLS

**Programming Languages:** HTML, CSS, JavaScript, Python, Go, SQL, Java

**Frameworks & Libraries:** React, Angular, TailwindCSS, Bootstrap, Firebase, Scikit-learn

**Tools & Software:** Git, GitHub, Node.js, Power BI, Tableau, AdobeXD, Visual Studio Code

**Data Analysis:** R, pandas, NumPy, Matplotlib

## EXPERIENCE

### Software Engineer Co-op

Oct. 2024 – Jan. 2025

*LegerLovingCare*

*Remote*

- Developed a modern, scalable healthcare website using Next.js, TypeScript, TailwindCSS, and PostgreSQL, enabling seamless appointment scheduling, payment processing, and insurance policy management.
- Optimized performance by implementing server-side rendering (SSR), caching, and lazy loading, reducing load times by 30% and boosting site traffic by 25% through improved SEO.
- Integrated Stripe for secure payments and enhanced accessibility features, resulting in a 15% increase in user engagement and appointment bookings.

### Account Manager

May 2022 – Aug. 2023

*Megalodon Management*

*Brockton, MA*

- Developed and maintained a customer relationship management (CRM) system to track client interactions and sales pipelines, improving efficiency by 20%.
- Analyzed customer behavior trends with Excel, Power BI, and SQL queries, leading to data-driven sales strategies that improved conversion rates by 15%.
- Collaborated with technical teams to integrate Verizon's API for real-time plan updates and automated customer data synchronization, reducing manual data entry errors by 30%.

### Undergraduate AI Research Assistant

Feb. 2023 – May 2023

*University of Massachusetts Amherst*

*Amherst, MA*

- Developed a deep learning model using TensorFlow and PyTorch to analyze medical images for early disease detection, focusing on improving diagnostic accuracy in X-ray and MRI scans.
- Overcame challenges in limited labeled datasets by implementing transfer learning and data augmentation, improving model performance and reducing false positives by 15%.
- Gained expertise in AI-driven medical imaging by training convolutional neural networks (CNNs), optimizing hyperparameters, and presenting findings through Power BI dashboards and Matplotlib visualizations.

## PROJECTS

### Google Chrome Task Manager Extension | *HTML, CSS, JavaScript, Firebase*

Jan. 2025

- Developed a Chrome extension to help users manage tasks and deadlines, with Firebase for real-time data storage and synchronization.
- Implemented a user-friendly interface using HTML and CSS, allowing users to add, edit, and delete tasks seamlessly.
- Integrated Firebase Authentication to ensure secure user access and data privacy.

### Mental Health Calendar | *HTML, CSS, JavaScript, React, Firebase, Git, Github*

Nov. 2024

- Designed and built a web application to track and promote mental health awareness using a React-based calendar.
- Implemented user authentication with Firebase, ensuring secure access to personal data.
- Developed customizable features allowing users to tag daily emotions and generate visual reports of trends.