# 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**: JavaScript (ES6+), TypeScript, Python, Go, SQL, Java
**Web Technologies**: HTML5, CSS3, TailwindCSS, Bootstrap, Next.js, Firebase
**Frameworks & Libraries**: React, Angular, Node.js, TensorFlow, PyTorch, Scikit-learn
**Tools & Software**: Git, GitHub, VS Code, Docker, Power BI, Tableau
**Development Practices**: Agile/Scrum, RESTful APIs, Unit Testing (Jest, Mocha), CI/CD Pipelines
**Data Analysis**: R, pandas, NumPy, Matplotlib, Machine Learning Models

## EXPERIENCE

**Software Engineer Intern (Frontend & Backend)** — Oct. 2024 – Jan. 2025
*LegerLovingCare* — *Remote*
- Engineered a full-stack healthcare platform with Next.js, TypeScript, and PostgreSQL, streamlining user experience and automating appointment scheduling, payment processing, and insurance verification.
- 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*
- Built and managed a CRM system, improving sales pipeline 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*
- Designed and implemented a CNN-based deep learning pipeline in TensorFlow/PyTorch, improving medical image classification accuracy by 15% through transfer learning and hyperparameter optimization.
- 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
- Built a mental health tracking web app using React and Firebase, featuring real-time updates, user authentication, and personalized emotion-tracking analytics.
- 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.