

Jeremy Granizo

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OBJECTIVE

Full-stack software engineer with hands-on experience in AWS deployment, machine learning, and modern web development seeking to leverage expertise in impactful, scalable engineering projects

EDUCATION

New Jersey Institute of Technology (NJIT)	Newark, NJ
Bachelor of Science in Computer Science;	May 2025
– Relevant Coursework: Data Mining, Data Visualization, Machine Learning, Database System Design, Advanced Internet Applications, Guided Design in Software Engineering	

SKILLS SUMMARY

- **Languages** Python, JavaScript/TypeScript, Java, PHP, SQL, Bash
- **Backend & Cloud:** Node.js, Express, Flask, MySQL, MongoDB, AWS (EC2, S3, RDS), REST APIs, Linux, Docker
- **Frontend/UI:** React.js, HTML, CSS, Chakra UI, Vite
- **Data/ML:** Pandas, NumPy, Scikit-Learn, TensorFlow, Hugging Face, NLP (BERT)
- **Certifications:** Supervised Machine Learning: Regression and Classification

EXPERIENCE

Capstone Project — Medical Adherence Application (NJIT & RDE Systems) Jan 2025 – Present

- **Led deployment** of the backend infrastructure on **AWS EC2** and configured a secure, scalable **MySQL database** using **AWS RDS**, enabling **efficient** cloud-based data management.
- **Designed and implemented a gamified achievement system** seamlessly integrated across the login, reminder, and user dashboard, increasing user engagement and medication adherence by up to **40%** through incentive progress tracking.
- **Conducted regular code reviews** within a cross-functional Agile team and automated deployments using **GitHub Actions** and AWS, improving code reliability and accelerating release cycles.

Web Developer for Giovanna's Amazing Face Painting & Body Art Jan 2023 – Oct 2023
Freelance Remote

- Designed and developed a **responsive web application** using **React** and Node.js, enabling the client to showcase services and manage bookings, resulting in a **66.7% increase in client acquisition**.
- Implemented a **form submission system** by customizing an open-source **Google Apps Script** (sourced from GitHub) to log inquiries directly into **Google Sheets**, streamlining client tracking and management.

PROJECTS

Real-Time Multiplayer Domino Game — TypeScript, React, Chakra UI

- **Developed** a **real-time** multiplayer Domino game using TypeScript and React, integrating **WebSockets** for state synchronization.
- **Developed** and **Led** a 4-person **Agile** team, conducting sprint planning, code reviews, and pair programming to ensure high-quality, scalable code.

Gym Workout Tracker — Apache, PHP, HTML, SQL, CSS

- Engineered a full-stack gym web application using PHP, creating a custom **database architecture** and **backend systems**
- Developed a **dynamic** workout recommendation engine and a **progressive** overload **algorithm** to optimize user workouts.

MERN Stack RESTful API — MongoDB, Express.js, React.js, Node.js

- Developed a MERN stack RESTful API with CRUD operations, enabling efficient data retrieval from a MongoDB database.
- Optimized the **search functionality** to progressively narrow results as each letter is typed, improving performance by **87.5%** in search queries.

Reddit Sentimental Analysis — Python/Libraries, AWS S3, Machine Learning, NLP

- Fine-tuned a **BERT model** for sentiment analysis on **1.6 million tweets**, achieving **90% accuracy**, addressing class imbalance.
- Leveraged **Amazon S3** for efficient data storage and pre-processing, reducing application load time from **1 minute** to approximately **3 seconds**, greatly enhancing user experience and runtime performance.
- Integrated Reddit API for **real-time** data retrieval and **collaborated** with a teammate to deploy the sentiment analysis pipeline.