

Rushil Rawat

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EDUCATION

University of Massachusetts
B.S. in Computer Science + Business

Amherst, MA
Aug 2024 – May 2028

EXPERIENCE

Open Source Developer Jan 2025 – Apr 2025
CICS Open Source Apprenticeship, UMass Amherst *Hybrid*

- Implemented map navigation features and resolved 4 bugs for *Veloren* open-source RPG using Rust & Bevy Engine in a 3-person Scrum team under industry mentorship
- Established CI/CD pipeline with GitLab Actions, automating testing and deployments to reduce errors by 40%
- Reviewed 15+ pull requests, providing feedback, identifying bugs, enforcing quality standards in an active open-source community

Full-Stack Developer Feb 2025 – Present
College of Humanities and Fine Arts, UMass Amherst *Hybrid*

- Automated migration of 10 digital course modules using Python, implemented QA/QC checks to eliminate formatting inconsistencies, achieving 100% data integrity
- Developed 80+ interactive HTML, CSS, JavaScript assessments, worked with IT staff to ensure cross-platform compatibility
- Optimized MySQL queries while performing integration testing between Canvas LMS and Pressbooks, resolving 2 sync issues, improving content delivery for 400+ students

AI/ML Engineer May 2025 – Present
MIT Break Through Tech; Chambers Capital Ventures, Inc *Remote*

- Engineered ML pipeline on 10,000+ B2B survey responses, implemented NLP & K-means clustering to analyze buyer psychology; creating 5 validated buyer personas
- Collaborated with a cross-university team to refine preprocessing strategy (lemmatization, tuning, pruning), improving cluster separability
- Built a Streamlit dashboard visualizing 11 purchase motivators, delivering insights that reduce startup market risk

PROJECTS

TableFinder for UMass Amherst Dining | *Python, TypeScript, React, Docker* Jun 2025 – Present

- Architecting full-stack Dining Hall table occupancy platform using React, Flask, and real-time database to manage NFC check-ins supporting 1000+ daily check-ins
- Testing with 100+ students, to validate efficiency and present for a campus-wide expansion

StockSearch | *React, TypeScript, Flask, Chart.js, REST API* Jan 2025 – Mar 2025

- Built stock analysis web app integrating API with React front end, implementing Chart.js for real-time visualizations
- Developed portfolio backtesting simulator processing 10+ years of historical data, calculating ROI and volatility for investment strategy evaluation

ClubConnect | *MySQL, Python, Tkinter* Apr 2024

- Engineered desktop application managing 200+ student records across 5 clubs, automating achievement tracking and event logging with MySQL backend
- Reduced faculty reporting time by 30% through automated summary generation with custom SQL queries, implementing input validation to ensure data integrity across 20+ administrative users

SKILLS

Languages: Java, Python, C++, JavaScript, TypeScript, Rust, C, SQL, HTML, CSS, R
Web and Backend: React, Flask, Node.js, Tailwind, Chart.js, REST APIs, MySQL, MongoDB, Supabase, Tkinter
DevOps and Testing: Git, GitHub, GitLab, CI/CD, Docker, JUnit, PyTest, Linux/Unix, Jira, AWS
Data and Tools: Pandas, NumPy, scikit-learn, OpenCV, Matplotlib, Figma, Postman