Jayesh Velivela

Backend-focused software engineer with hands-on experience scaling APIs, improving system performance.

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EDUCATION

University of Michigan   August 2023 - May 2027
B.S.E. in Computer Science   *Ann Arbor, Michigan*

Honors Awards: Health Occupation Students of America (HOSA) States, Deans List, Python PCEP

Relevant Coursework: Problem Solving and Programming, Data Structures and Algorithms, Computer Organization, Data Science, Discrete Math, Web Systems, User, Interface Development

EXPERIENCE

Ghadys LLC   May 2025 – August 2025
Software Engineer Intern   *Northville, Michigan*
- Owned the design and optimization of 20+ RESTful APIs using Java (Spring Boot) and C (.NET Core), improving backend response time by 35% across high-volume fintech and healthcare systems and enabling reusable component design for scalability.
- Wrote 150+ automated unit and integration tests using JUnit, xUnit, and React Testing Library to increase test coverage from 57% to 91%, reduce QA regression cycles by 60%, and identify over 15+ logic errors before launch.
- Automated CI/CD pipelines via GitHub Actions and Azure DevOps to reduce deployment time by 85%, eliminate nearly all manual steps, and enable consistent daily production pushes across multiple regional cloud environments.

M1 Digital   March 2024 – December 2024
Outreach Director Intern   *Detroit, Michigan*
- Led data-driven outreach strategy by analyzing KPIs from 10+ digital events, producing dashboards and actionable reports that informed future campaign design and increased stakeholder alignment.
- Collaborated with internal product and marketing teams to define and execute OKRs for digital equity initiatives, directly impacting 100+ participants and expanding access to tech education resources.
- Designed scalable event registration and feedback workflows using Airtable + Zapier automations, reducing manual coordination time by 50% while enabling real-time attendance tracking and sentiment analysis.

PROJECTS

Multi-Tenant Document Processing Platform | *FastAPI, Redis, Docker, JWT, SQLAlchemy*   December 2025
- Designed and built a production-focused backend platform enforcing strict tenant isolation, secure authentication, and scalable document ingestion for multi-user environments.
- Implemented JWT-based authentication, role-based authorization, and PostgreSQL schemas enforcing strict tenant isolation and consistent access control across multiple users and tenants.

Lift Link | *React Native, TypeScript, Redux Toolkit, Supabase, PostgreSQL*   July 2025
- Developed a full-stack mobile fitness application supporting real-time workout logging, analytics, and a social feed using React Native and TypeScript with a focus on user experience and performance.
- Integrated Supabase for authentication, real-time data synchronization, relational storage, and role-based access control across users, workouts, and social features.

Credit Wise | *Python, scikit-learn, Pandas, Streamlit, NumPy*   August 2025
- Built an interactive web application to simulate and predict FICO credit scores based on user-controlled financial behaviors, including credit utilization, payment history, and account activity.
- Trained a Random Forest regression model achieving R^2 scores above 0.92, enabling accurate predictions and real-time visualization of credit score changes and model outputs.

TECHNICAL SKILLS

Languages: Python, Java, C, JavaScript, SQL, Bash, C++
Backend & Systems: RESTful APIs, Authentication, Authorization, PostgreSQL, Redis, Distributed Systems
Infrastructure & DevOps: CI/CD, GitHub Actions, Azure DevOps, Docker, Cloud Deployment (AWS, GCP, Azure)
Tools & Frameworks: Linux, Unit Testing, Agile/Scrum, Accessibility (WCAG), Data Visualization (Matplotlib), Power BI, Tableau