Dakshil Zalavadiya

EDUCATION

University of Illinois at Chicago
May 2025, Bachelor of Science Computer Science – Minor in Finance, Chicago, IL

Relevant Coursework: Computer Visualizations, Data Structures and Algorithms, Discrete Mathematics, Machine Organization, Software Design, Systems Programming, Computer Design, UI Design and Programming, Database Management, Data Visualization, Data Science

SKILLS AND STRENGTHS

- Languages: Python, C++, Java, JavaScript, C, HTML, CSS, SQL, Dart
- Frameworks: React, Node.js, Flask, Bootstrap, Flutter
- Developer Tools: Git, Apache Kafka, RESTful APIs, Pytest, PostgreSQL, Jupyter Notebook, Protobuf, Netlify, Slack API, VS Code, Eclipse

WORK EXPERIENCE

Ampel Inc, Elk Grove, IL   **May 2025 – Present**
Software Engineer
Collaborated with senior engineers to design and deliver a custom Inventory Management System **using** Python, PostgreSQL, and Bootstrap**. S**upports multi-user access, real-time part tracking, and automatic reorder logic. Reduced stock-out incidents and improved production reliability by **15%.**

- Assisted in developing a real time Machinery Maintenance System by streaming fabrication logs through Apache Kafka, validating messages via Protobuf, and dispatching diagnostic alerts through Python microservices, cutting unexpected downtime by 20%.
- Contributed to backend development by writing and testing REST APIs for file uploads, job status updates, and part management, enhancing internal tool reliability and enabling scalable workflows.

Ampel Inc, Elk Grove, IL   **May 2024 – August 2024**
Software Engineer Intern
Worked with a development team to design and improve the company's official website using React, Node.js, and Netlify, enabling customers to browse PCB services and submit online quote requests.

- Partnered with stakeholders to create a contact form integrated with Slack alerts, improving response time and increasing inbound quote request by 25%.
- Contributed to admin features by building a protected panel that allowed non-technical staff to update service listings, staff bios, and announcements.
- Applied industry best practices in accessibility and responsive design, ensuring visibility and usability across devices.

PROJECTS

QuickBite | Flutter, Dart   **Spring 2025**

- Directed and facilitated a team to create a mobile app that generates recipes from user input ingredients with the goal of optimizing meal prep and reducing food waste volume for college students and busy professionals.
- Integrated Spoonacular API with asynchronous calls, JSON parsing, and error handling, returning 800 MS average search latency for over 9,000 recipes.
- Implemented dietary filters, nutritional panels, and a custom search interface to improve user experience.
- Beta test results with 120+ users showed a significant drop in food waste and time efficiency for meal prep.

Personal Website | React, CSS   **August 2025**

- Designed and built a responsive personal portfolio website to showcase software development projects and professional experience.
- Designed a clean, accessible UI with a vibrant, fall-inspired aesthetic to enhance user experience and visual appeal across devices.
- Deployed the portfolio using React on Vercel for efficient and scalable hosting.

https://dakshil-portfolio.vercel.app/