

Dip Patel

dip2851@gmail.com • www.linkedin.com/in/dip-patel-1764471a9 • github.com/pateld1p • dippatel.dev

OBJECTIVE

Software engineer with a strong foundation in computer science and experience in full stack development, seeking a full-time role to leverage skills in Java, Python, Javascript, SQL, and modern frameworks. Experienced in managing the full software development lifecycle, from design and production to deployment. Eager to contribute and collaborate in a dynamic, growth-oriented environment.

EDUCATION

California State University, Sacramento

Graduation: December 2024

Bachelors of Science in Computer Science | GPA: 3.65/4.00

Relevant Coursework: Data Structures and Algorithms, Software Engineering, Deep Learning, Parallel Programming GPUs

SKILLS

Languages: Python, Java, SQL, Javascript, Cuda C++

Software/Tools: AWS, Tableau, Postman, Jira, Agile(methodology), ServiceNow, Firebase, Vercel, Excel

RELEVANT EXPERIENCE

Student Intern

Feb 2024 - Present

Caltrans

Sacramento, CA

- Collected and sorted traffic collision reports (TCRs), ensuring accurate data entry into centralized databases.
- Assisted in geospatial coding of collision locations using GIS software, enhancing data precision and mapping.
- Utilized Microsoft Excel for data organization and analysis, demonstrating proficiency in spreadsheet management.

Software Engineering Fellow

Jul 2024 - Sep 2024

Headstarter AI

San Francisco, CA

- Developed **5+** AI projects, enhancing practical machine learning and AI skills.
- Collaborated with a team of 3 to build and manage a startup backlog.

Web Developer Intern

Dec 2023 - Feb 2024

BayDevelops

Surat, India

- Built login and registration pages with React.js and Node.js/Express backend.
- Developed projects from design to deployment using MVC design patterns.
- Used Jira for project management and followed Agile methodologies.

IT Assistant

Jun 2021 - May 2024

California State University

Sacramento, CA

- Streamlined classroom IT operations, reducing assistance wait time by **15%**.
- Constructed A/V technology setups for classrooms and managed service requests and incidents via ServiceNow.
- Created reports and visualizations in Excel and PowerPoint, providing insights to enhance operational efficiency.

PROJECTS

The Journey Game (Techstack: Java, Codename One, Observer & Command Design Pattern, MVC Architecture)

- Developed a mobile game application using Codename One, incorporating key **object-oriented programming(OOP)** concepts, design patterns, and interactive graphics.
- Utilized MVC architecture to separate game logic from UI, and implemented Observer and Command patterns for dynamic interactions.
- Optimized design patterns and architecture, improving code efficiency and maintainability by **25%**, resulting in faster development cycles and enhanced gameplay performance.

Senior Project (Academic) (Techstack: React, Node Js, PostgreSQL, AWS, REST APIs)

- Collaborated with a team of eight members to design and develop a full-stack web application for a software solution client, enhancing customer experience and streamlining business processes.
- Developed and implemented RESTful APIs using Node.js and Express, ensuring efficient communication between the front end and PostgreSQL database, resulting in a **30%** improvement in data retrieval times.
- Carried out deployment using AWS, ensuring a scalable and reliable infrastructure for hosting the application.
- Followed Agile methodology, participating in sprint planning, code reviews, and daily stand-ups to deliver milestones on time.

Pantry Management App (Techstack: Next.js, Firebase Firestore, Spoonacular API, Material-UI, Axios)

- Developed a responsive web app to manage pantry inventory and fetch recipes based on available ingredients.
- Implemented real-time database functionality using Firebase Firestore and AI-powered algorithms recipe recommendations.

Flashcard Saas (Techstack: Next.js, React, Firebase, Clerk, Stripe, OpenAI API)

- Collaborated with a team to build a full-fledged SaaS platform for creating, managing, and studying flashcards, utilizing Next.js and React for dynamic UI development.
- Leveraged OpenAI API to automatically generate flashcards based on user-provided content, utilizing AI to enhance the learning experience and significantly reduce manual effort.
- Integrated Clerk for secure user authentication, and Stripe for handling subscription-based payments.