

Dev Patel

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WORK EXPERIENCE

Software Engineer II at Glidewell Dental, Irvine, CA

Sep 2021 – Present

- Designing and deploying AWS cloud architecture to bolster IoT-based services, enabling seamless transformation, analysis, and secure storage of incoming data payloads.
- Actively automate infrastructure deployment on AWS using Terraform, while leveraging CloudBees, Jenkins, and Gitlab development tools to ensure efficient and reliable operations.
- Continuously developing and maintaining user-friendly, interactive web applications and Web Dashboards for machine monitoring, ensuring real-time and historical performance monitoring of IoT-enabled machines and factory lines while consistently updating and managing program versions for ongoing production support.
- Actively leading the design and implementation of a suite of proactive microservices, ensuring vigilant monitoring of production processes and machinery, swift anomaly detection, and precise corrective action execution. Continuously enhancing automated reporting mechanisms for data-driven decision-making.
- Integrating multiple software services using REST API frameworks and IoT solutions, aligning technology with evolving business requirements.
- Actively contributing to the ongoing advancement of both front-end and back-end technology stacks, driving technological growth and innovation within the team.

Full Stack Web Developer at Signage Ideas, Redlands, CA

Jul 2021 – Sep 2021

- Compiled and tackled technical and design specifications, merging user-oriented and front-end elements to maintain the effectiveness of the web presence.
- Worked closely with stakeholders throughout the development process to validate innovative proposals and implement best practices.

EDUCATION

Rutgers University, New Brunswick, NJ

May 2021

Degree: Bachelor of Science in Computer Science

Relevant courses: Algorithms, Data Structures, Python, Artificial Intelligence, C/C++, Computer Architecture, Networks, Computer Security, Compilers Assembly, Operating Systems, Logic Analysis, Software Methodology

TECH SKILLS

- Programming Languages: Java, Python, JavaScript, C, C++, C#, and .NET.
- Web Development: Proficient in HTML, CSS, and JavaScript, including Angular and React frameworks.
- Cloud Services: Extensive proficiency in AWS services such as IoT Core, IoT Greengrass, IoT SiteWise, Lambda, VPC, EC2 - LightSail, Kafka - MSK, S3, SQS, SNS, SES, DynamoDB, RDS, and API Gateway. Additionally, skilled in MS Azure and GCP cloud platforms.
- Development Tools: Skilled in Jenkins - CloudBees, Gitlab (Pipelines), Terraform, Kubernetes, Bitbucket, GitHub, and Git.

PROJECTS

Photos – Android Studio, Independent Project

Dec 2020 – Jan 2021

- Designed an application to import the photos from the gallery and enhanced the functionalities to handle photos using XML and Android Studio.

Wumpus World, Artificial Intelligence

Sep 2020 – Oct 2020

- Enhanced AI in the Wumpus World game using the “Fog of War” idea and adding the probability distribution for state variables and best moves to succeed.

Flights, A Travel Reservation Website at Rutgers University

Oct 2019 – Dec 2019

- Created a website that allows users to view or make flight reservations for 1000+ flight schedules using HTML/CSS, Java, JavaScript, and MySQL. Hosted the website using AWS S3, MySQL workbench and AWS RDS for related functionalities. Stored data in MySQL database and modified it along with selected payment options.

Client-Server Interactor, Internet Technology at Rutgers University

Jan 2019 – Apr 2019

- Built a small-scale version of control system with 13 functionalities using sockets, multithreading, forking and file API. Functionalities included: configure, checkout, update, upgrade, commit, push, create, destroy, add, remove, current version, history, and rollback.
- Deployed a multi-user version to accelerate teamwork by 30% using socket ID and port numbers.