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 support IoT-based services, facilitating the transformation, analysis, and storage of incoming data payloads.
- Automating Infrastructure deployment on AWS through the utilization of Terraform and CloudBees development tools.
- Developing Web Dashboards for machine monitoring, maintaining the updates and versions for the programs deployed in production.
- Creating user-friendly, interactive web applications to monitor and analyze the real-time and historical performance of IoT-enabled machines and factory lines.
- Contributing to the advancement of both front-end and back-end technology stacks.

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.

Learning Assistant at Rutgers University, *New Brunswick, NJ*   Feb 2021 – May 2021
- Conducted numerous workshops and discussions to support students studying Computer Science courses.
- Created tutorials on writing computer programs and solving engineering problems.

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

PROJECTS

Photos – Android Studio, Independent Project   Dec 2020 – Jan 2021
- Designed the application to import the photos from the gallery and enhanced the functionalities to handle photos using XML and Android Studio.
- Mastered Object-oriented programming and Data Structures to handle 20+ functionalities needed for the application.

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.

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: Experienced in AWS services such as IoT Core, IoT Greengrass, IoT Sitewise, Lambda, VPC, EC2 - LightSail, Kafka - MSK, S3, SQS, SNS, SES, DynamoDB, and API Gateway, as well as in MS Azure and GCP.
- Development Tools: Skilled in Jenkins - CloudBees, Terraform, Kubernetes, Docker, Bitbucket, GitHub, and Git.