DISHA PATEL

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EDUCATION

California State University, Fullerton   **Fullerton, CA**
Master of Science in Computer Science **(GPA: 3.67/4.00)**   *Aug, 2022 – May, 2024*
Navrachana University   **Gujarat, India**
Bachelor of Technology in Information Technology **(CGPA: 9.00/10.00)**   *Aug, 2018 – May, 2022*

WORK EXPERIENCE

iOS Mobile Application Development – Graduate Teaching Associate

California State University, Fullerton   *Aug, 2023 – Present*

- Guiding students in CPSC 411 through iOS mobile app development, merging theory with hands-on coding using Java. Managing comprehensive learning experiences, including feedback, assessments, exams, and tutorials.

- Developing a balanced curriculum and teaching materials that emphasize practical coding and theoretical concepts. Leading students in user interface design, application testing, debugging techniques. Ensuring code integrity through version control management for student projects.

- Collaborating with colleagues and industry professionals to enhance curriculum relevance. Fostering an inclusive classroom atmosphere, promoting open discussions and group collaboration.

Software Engineer

Banco Products (India) Limited • Internship   *Jan, 2022 – May, 2022*

- Within the "GlobalConnect" Features team of 10 developers, I actively participated in projects, demonstrating my adaptability in a fast-paced environment. My problem-solving skills were crucial in tackling unexpected challenges that arose during these projects.

- I consistently applied a meticulous User Experience (UX) lens to "GlobalConnect" feature development, resolving user interface and functionality issues to enhance end-user satisfaction. My problem-solving abilities came into play when addressing UX-related challenges effectively.

- My problem-solving skills were instrumental in achieving a notable 15% increase in efficiency in Java-based software projects. I utilized tools like JIRA to address project management challenges, Postman for troubleshooting API issues, and Automation Testing to identify/ resolve bottlenecks. Docker was used for efficient containerization, which helped solve deployment challenges and ensure consistent environments across projects.

Software Engineer

Brainbean Technolabs PVT LTD • Internship   *May, 2021 – Jul, 2021*

- Spearheaded critical backend systems, addressing performance and reliability challenges through the implementation of Agile methodologies.

- Enhanced software quality with RESTful APIs in Java, Node.js, and AWS Lambda, while streamlining code management through CI/CD tools and Bitbucket version control, effectively solving code-related challenges.

- Strategically designed a robust microservices architecture utilizing AWS services, addressing architectural complexities, and providing valuable insights during project meetings to solve architectural challenges.

- Led efforts to maximize workflow efficiency across the entire product development lifecycle. Achieved this through effective integration of Docker, AWS, and Kafka, and provided essential design recommendations to solve workflow bottlenecks.

Web Developer

Hofy – Intelligent Living • Internship   *Nov, 2019 – Jan, 2020*

- Formalized web form development process by leveraging HTML/CSS & JavaScript for the front-end, PHP for server-side processing & MySQL for data storage, resulting in a 75% faster development time.

- Deployed AWS to host and deploy forms with accuracy, reducing referential integrity errors by over 90%. Capitalized on expertise to develop several web form applications ranging from 10 - 25 pages, enabling team to complete projects within tight deadlines, using Node.js and Express for back-end development.

PROJECTS

Multi-Tier Web Application using AWS   *Aug, 2022 – Dec, 2022*

- Implemented scalable architecture using AWS services (VPC, Route53, EC2, Load Balancer, Apache2 Linux) for a streaming web application. Configured a two-server setup (Public and Private) to reduce internet traffic by 20% while ensuring secure data transmission.

- Improved user experience by deploying auto scaling feature to dynamically adjust capacity based on peak period usage, resulting in a 25% performance enhancement.

Knowledge Quiz Mobile Application   *Jan, 2020 – May, 2020*

- Developed a feature-rich mobile application using Java and Android Studio, integrating UI designs with HTML5 and CSS3 for visually appealing user experience. Implemented a robust backend using Python and Django framework, ensuring efficient data management with MySQL.

- Optimized performance by migrating the backend database from MySQL to MongoDB, resulting in a 40% improvement in data access and a 70% reduction in query time. Deployed the application on AWS, utilizing cloud services and infrastructure for scalability and reliability.

TECHNICAL SKILLS

- **Languages/ Scripting:** Java, Python (Django), C++, PHP, JavaScript (Node.js, React.js, jQuery), HTML5/CSS
- **Databases Skills:** AWS (EC2, RDS, SQS, SNS), DB2, SQL Queries (MySQL, PostgreSQL, NoSQL), Redis
- **Development Tools & Other Technologies:** Git (Version Control), CI/CD Tools, Visual Studio, Jira, Postman, Docker, Kafka, Sockets
- **Methodologies and Other Skills:** Software Development Life Cycle (SDLC), Agile Methodology, UML, Automated Testing (Unit, Integration, Functional Testing), Problem-Solving, Team Leadership and Management, UX Design Principles, Cross-Functional Collaboration

CERTIFICATIONS

Azure Fundamentals by Microsoft | Databases for Developers: Foundation, Next Level and Performance by Oracle | Architecting with Google Cloud Engine by Google Cloud | Career Edge By TCS