Dhiren Chotwani

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EDUCATION

Santa Clara University, School Of Engineering, Santa Clara, CA — Sep. 2022 - Jun. 2024
Master of Science in Computer Science & Engineering — **GPA: 3.76/4.0**
Related Coursework: Design & Analysis of Algorithms, OO Programming, Software Testing, Advance Operating Systems, Database Systems

University of Mumbai, Vivekanand Education Society's Institute of Technology, Mumbai, India — Aug. 2017 - Oct. 2020
Bachelor of Engineering in Computer Engineering — **GPA: 3.87/4.0**

Maharashtra State Board of Technical Education, Vivekanand Education Society's Polytechnic , Mumbai, India — Jun. 2014 - Jun. 2017
Diploma in Computer Technology — *Percentage: 87.7*

TECHNICAL SKILLS

Languages/Technologies: C, C++, C#, Java, PHP (CodeIgnitor, Laravel), .NET, Python
Web Development: HTML, CSS, JS, jQuery, Bootstrap
Databases: MSSQL, MySQL, PostgresQL, GraphQL
Frameworks: Node.js, Express.js, Vue.js, React.js, Redux, Angular, Typescript, SpringBoot, ASP.NET, JavaFX, React Native, Quasar, Webpack
Misc: AWS, Azure, Git**,** Github, Docker, kubernetes(K8's), JIRA, Azure DevOps, CI/CD, Snyk, Kafka, PowerBI Desktop, Power Automate/Apps

EXPERIENCE

Indus Valley Partners, Dallas, TX, USA — Jun. 2023 - Aug 2023
Associate Software Engineer Intern

- Developed and implemented a custom **Kanban board** on React to optimize task tracking and project management processes. Designed the board to enhance team collaboration, streamline workflows, and increase overall productivity. Utilized visual cues and task categorization to improve task prioritization and project timelines.

- Created a holistic **Power App** solution featuring multiple dashboard pages, transforming the traditional quarterly fund reporting process. Skillfully utilized **Microsoft Flow's** capabilities to establish hierarchical approval workflows, seamlessly integrated with **Microsoft Teams.** Through the implementation of these automated workflows, effectively eliminated manual interdependencies among stakeholders, yielding an exceptional 70% reduction in the total fund reporting time (176 hours reduced to 56 hours).

Indus Valley Partners, Mumbai, India — Jul. 2020 - Aug. 2022
Associate Software Engineer

- Developed a robust **MVC-based .NET** application to serve as the backend support for a comprehensive Investment Firm Risk Data Dashboard. The solution empowered the Risk Team to execute data operations efficiently, facilitating swift data updates and retrievals.
- Engaged in close collaboration with **Risk and Operations teams** to gain in-depth insights into their data analysis needs. Translated these requirements into efficient **Python scripts** for data extraction and the ETL (Extract, Transform, Load) process. Rigorously ensure data accuracy and reliability by conducting comprehensive testing and debugging of the scripts.
- Designed & Developed Interactive UI components using **Vue.js, React.js, Angular and Node.js** to allow easy access to operations and improve end-user response time.Created UI Test cases using automated testing tool **Cypress** to perform Unit & Integration testing.
- Utilized **AWS-S3** service using **Node.js/Vue.js** to allow object storage through a web interface for a document repository. Integrated **Flow.js** to handle large PDF files along with **Express** Path Library.
- Added **Egnyte API** for file synchronization & sharing along with data governance to restrict data access on user role level.
- Pioneered **Office Add-ins** to support custom operations for Outlook/Gmail.
- Built **Azure Data Factory Pipes** to pull in huge loads of data from various sources (Database, XML, Excel, CSV) and load data into **Synapse** Workspace, making ETL operations faster by 52% and enhancing scheduling capabilities.
- Managed a team of three(interimly), with duties including client engagement, architecting solutions, scrum master & progress tracking.

PROJECTS

Coreveillance, Platform Independent App (React Native, PHP , MySQL, OpenCV, Deep Learning, Neural Network , Expo) — Jun. 2019 - May. 2020
- Designed & Conceptualized a real-time application based on video analysis and machine learning offering top-notch security features to residential and non-residential sites. Led a team of four contributors and published a paper at the Springer International Conference on Information and Communication and Technology for Intelligent Systems 2020, Vol 2, Issue 2 DOI: **10.1007/978-981-15-7062- 9_68.**

Aptifiers, Web Application (Web Technologies,, OOP PHP , MySQL , OpenCV, Image/Speech Recognition) — Jul. 2018 - May. 2019
- Devised & Collaborated with a team of two to implement an online portal to conduct multiple-choice tests.
- Included features for determining a person's authenticity using image recognition principles, ensuring no malpractices happen and displaying performance metrics for all users. Also implemented Speech Recognition to track any background noise which could help the employee gain unwanted advantage while appearing for a test.