

Dhiren Chotwani

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EDUCATION

Santa Clara University , School Of Engineering, Santa Clara, CA Master of Science in Computer Science & Engineering Related Coursework: Design & Analysis of Algorithms, OO Programming, Software Testing, Advance Operating Systems, Database Systems, Machine Learning, Advanced Web Programing (Ruby On Rails)	Sep. 2022 - Jun. 2024 GPA: 3.82/4.0
University of Mumbai , Vivekanand Education Society's Institute of Technology, Mumbai, India Bachelor of Engineering in Computer Engineering	Aug. 2017 - Oct. 2020 GPA: 3.87/4.0
Maharashtra State Board of Technical Education , Vivekanand Education Society's Polytechnic , Mumbai, India Diploma in Computer Technology	Jun. 2014 - Jun. 2017 Percentage: 87.7

TECHNICAL SKILLS

Languages/Technologies: C, C++, C#, Java, PHP (CodeIgnitor, Laravel), .NET, Python, Ruby On Rails

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, PowerBI Desktop, Power Automate/Apps, RabbitMQ

EXPERIENCE

Indus Valley Partners , Dallas, TX, USA <i>Associate Software Engineer Intern</i>	Jun. 2023 - Aug 2023
<ul style="list-style-type: none">Developed a high-performance MVC-based .NET backend for an Investment Firm Risk Data Dashboard, optimizing data processing by 45%, reducing data retrieval latency by 25 millisecond. Implemented security measures, including role-based access control, leading to about 20% reduction in unauthorized access attempts.Collaborated with Risk and Operations teams to gain in-depth insights into their data analysis needs. Translated these requirements into efficient Python scripts along with PySpark for data extraction and the ETL (Extract, Transform, Load) process. Ensured data accuracy and reliability by conducting comprehensive testing and debugging of the scripts.	
Indus Valley Partners , Mumbai, India <i>Associate Software Engineer</i>	Jul. 2020 - Aug. 2022
<ul style="list-style-type: none">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.Developed a custom Kanban board on React to optimize task tracking and project management processes. Implemented 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).Implemented 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.	

PROJECTS

Coreveillance, Platform Independent App (React Native, PHP , MySQL, OpenCV, Deep Learning, Neural Network , Expo)	Jun. 2019 - May. 2020
<ul style="list-style-type: none">Implemented a real-time application based on video analysis and machine learning offering top-notch security features to residential and non-residential sites. Implemented RESTful API endpoints to facilitate seamless frontend-backend communication. Leveraged Laravel's object-oriented programming principles for efficient and scalable code architecture. Employed Eloquent ORM for streamlined database interactions. Publication: Springer International DOI: 10.1007/978-981-15-7062-9_68.	
Aptifiers, Web Application (Web Technologies, PHP,, MySQL , OpenCV, Image Recognition, Speech Recognition)	Jul. 2018 - May. 2019
<ul style="list-style-type: none">Developed an online portal for administering multiple-choice tests, incorporating the principles of image, video, and speech processing.Developed secure identity authentication using image recognition and integrated Speech Recognition with advanced noise detection. Applied OOP principles and utilized PHPs CodeIgnitor for scalability and robust design.	