

Dhiren Chotwani

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EDUCATION

Santa Clara University, School of Engineering, Santa Clara, CA Sep. 2022 - June 2024
Master of Science in Computer Science & Engineering GPA: 3.82/4.0

Related Coursework: Design & Analysis of Algorithms (C++), OO Programming (Java), Software Testing, Advanced Operating Systems, Database Systems, Machine Learning, Advanced Web Programming (Ruby On Rails), Computer Architecture, AI & Ethics

University of Mumbai, Vivekanand Education Society's Institute of Technology, Mumbai, India Aug. 2017 - Oct. 2020
Bachelor of Engineering in Computer Science 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 Score: 87.7%

TECHNICAL SKILLS

Programming Languages: C, C++, C#, Java, PHP (CodeIgnitor, Laravel), .NET, Python

Web Development: HTML, CSS, JavaScript, jQuery, Bootstrap

Frameworks: Node.js, Express.js, Vue.js, React.js, Redux, Angular, Typescript, Spring Boot, ASP.NET, JavaFX, React Native, Quasar, Webpack

Databases: MSSQL, MySQL, PostgreSQL, GraphQL

Cloud: Amazon Web Services (AWS), Azure, Azure DevOps, Docker, Kubernetes(K8's)

Misc.: CI/CD, Cypress, Kafka, RabbitMQ, Git, Github, JIRA, Selenium, Snyk, Sonarqube, PowerBI Desktop, Power Automate/Apps

EXPERIENCE

Software Engineer Intern | Indus Valley Partners, Dallas, TX, USA June 2023 - Aug. 2023

- Engineered high-performance **Java Spring Boot backend** for Risk Management Tool for an Investment Firm leveraging **RabbitMQ** to enhance scalability and message processing. Optimized data processing by 45%, reduced data retrieval latency by 25 ms, implemented robust security measures including role-based access.
- Engineered and deployed a tailored **Kanban** board using **React** aimed at refining credit task monitoring and agreement management. Seamless integration with CRM systems for triggering automatic workflows and approvals.

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

- Engineered and spearheaded the development of an internal Risk Group Web application for a \$29 B investment firm. Leveraged the cutting-edge capabilities of **React.js** for the frontend, seamlessly integrated with a high-performance **MVC-based .NET** backend.
- Constructed **Azure Data Factory Pipes** to pull large volumes of data from various sources and load into **Synapse** Workspace resulting in a 52% increase in ETL speed and enhanced scheduling capabilities.
- Led the development of efficient **Python** scripts for the Market Performance Data Engineering Team, employing **PySpark** for ETL (Extract, Transform, Load) processes and ensuring data accuracy through rigorous testing using **pytest**. Orchestrated the integration of this data into **MSSQL** using **SSIS** Packages, ultimately utilized by **SSRS** for report generation.
- Developed **Power App** solution with numerous dashboards transforming conventional fund reporting system. Leveraged **Microsoft Flow & Integrated MS Teams** for hierarchical approval processes and automated workflows resulting in 70% reduction in time from 176 hrs. to 56 hrs.
- Built a **CMS** for a Document Repository using **Vue.js** and **Node.js** featuring autocomplete select, tag selector, drag and drop role access, etc.
- Engineered an Earnings Analyzer tool using **Angular**, integrated with **Charts.js**. Created UI test cases with **Cypress** (Vue.js) & **Selenium** (React/Angular) for Unit & Integration testing.
- Leveraged **AWS-S3** service with Node.js and Vue.js to enable object storage via a web interface for a document repository. Integrated **Flow.js** to manage large PDF files along with the **Express Path Library**.
- Incorporated **Egnyte API** for file synchronization & sharing, implementing data governance to restrict data access on user role level.

PROJECTS

TradeForge, JavaFX Stock Trading App | Java, JavaFX, Microsoft SQL Server Mar. 2023 - June 2023

- Developed digital stock exchange platform offering real-time trading with price locking, real-time alerts for stock limit crossings, and personalized watchlists. Leveraged Java's powerful Multithreading, Collection Framework, and Object-oriented Programming.

FileIt, C++ File Storage | C++ Nov. 2022 - Dec. 2022

- Implemented a file system using a customizable hash list with an array of Modified LinkedList (double and sideways). Designed the system for efficient file organization, customizable hashing, and effective collision handling, demonstrating adeptness in system-level programming and file management.

Coreveillance, Platform Independent App | React Native, PHP, MySQL, OpenCV, Deep Learning, Neural Network, Expo June 2019 - May. 2020

- Implemented an advanced surveillance system to detect anomalous activities and send alerts based on real-time video analysis using machine learning. Publication: 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.