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: 3.80/4.0

Related Coursework: Design & Analysis of Algorithms, OO Programming, Advanced Operating Systems, Database Systems, Computer Architecture

University of Mumbai, Vivekanand Education Society's Institute of Technology, Mumbai, India Bachelor of Engineering in Computer Science

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 Score: 87.7%

TECHNICAL SKILLS

Programming Languages: C, C++, Java, Python

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

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

Databases: MSSQL, MySQL, GraphQL, PostgresQL

Cloud: Kubernetes(K8's), Amazon Web Services (AWS), Azure, Azure DevOps, Helm, Docker, Datadog, Spinnaker, Vercel, ArgoCD, Retool, CircleCl

Distributed Systems: Kafka, RabbitMQ, Redis, gRPC, Protobuf, Auth0

Misc.: Apache Server, Cypress, Git, Github, JIRA, Selenium, Snyk, Sonarqube, PowerBI Desktop, TensorFlow, Domo Dashboard

EXPERIENCE

Software Development Engineer II | Fidelity Information Services

Aug. 2024 - Present

- Developed a high-performance, multi-threaded algorithm using Python to automate bulk account operations (closing, freezing, unfreezing) for fraudulent accounts in real time, reducing processing time by 60%. The system handles 3,000 QPS with 99.9999% uptime through concurrent API calls to i2c, Persona, and Unit21, while maintaining p99 latency under 100ms.
- Built a full-stack customer note logging system with enterprise-grade AWS KMS Envelope encryption for secure PII storage and Redis caching for optimized performance. Achieved sub-50ms database retrieval times processing 1,000+ daily notes using React, Python Flask, and PostgreSQL.
- Engineered robust API communication layer using Python requests. Session() with connection pooling and exponential backoff to resolve middleware-to-backend service failures. Eliminated connection overhead bottlenecks, reduced request drop rates from 15% to <1%, and improved backend service throughput by 40% through efficient connection reuse patterns.

Software Engineer Intern | Indus Valley Partners

Jun. 2023 - Aug. 2023

- Built a Risk Management Tool for an Investment Firm, integrated with microservices based on Java Spring Boot. Utilized RabbitMQ for async data processing workflows and implemented role-based access to control user access across different platform features.
- Engineered and deployed a tailored Kanban board using Typescript 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

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 Angular for the frontend, seamlessly integrated with a high-performance Java Spring Boot backend.
- 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.
- Constructed Azure Data Factory Pipes/ARM Templates 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.
- Implemented and maintained CI/CD pipelines using tools like Snyk, Sonarqube, and Azure Pipelines to automate build, test, and deployment workflows, integrating with GitLab and Azure for static code analysis and auto-deployment.
- Developed **Power App** solution with numerous dashboards transforming conventional fund reporting systems. 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/Typescript, integrated with Charts.js. Created UI test cases with Cypress (Vue.js) & Selenium (React/Angular) for Unit & Integration testing employing Test Driven Development

PROJECTS

Coreveillance, Platform Independent App | React Native, MySQL, OpenCV, Deep Learning, Neural Network, TensorFlow 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.