DHAVAL JAYESH PATEL

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EDUCATION

MS in Computer Science and Engineering | University at Buffalo, The State University of New York, NY *June 2024*
Coursework – Algorithms, Data Models, Machine Learning, Parallel Algo., Computer Security, Networking Concepts, Project Development
Bachelor of Engineering, Information Technology | University of Mumbai, India *May 2017*
Coursework – Java, C, C++, Web Design, OOP, Data Structures and Algorithms, Cloud Computing, Machine Learning, Neural Networks

TECHNICAL SKILLS

- Programming languages : Python, JavaScript, TypeScript, Java, C, SQL, SAP ABAP
- Web Technologies : Node.js, React.js, Redux, Express.js, Django, FastAPI, Flask, HTML5, CSS3, REST API, MongoDB, AWS Basics
- Tools : Git, Postman, Jira, Google Cloud, BigQuery, PostgreSQL, MySQL, SQlite, Twilio, Figma, Grafana, Brevo, Tableau
- Concepts : Object-oriented programming, SDLC, Agile development, TDD, System Design, API Gateways

PROFESSIONAL EXPERIENCE

Colgate Global Business Services Pvt. Ltd. | Mumbai, India *June 2017 - July 2022*

Senior Software Engineer *Oct. 2021 - July 2022*
- **UoM Conversion Rectifier:** Applied **test-driven development** to build a remediation tool to resolve vital Unit of Measure mismatch, adding new **RESTful API** services in **Django**, addressing **React.js** component bugs, adding **test** cases in **JEST**, and validating **PostgresSQL** using complex queries for data integrity, saving users over 10,000 manual work hours across countries and improved planning accuracy by 75%
- **Pricing Mismatch Analyzer:** Employed **Pandas** to analyze and fix disparities between **Google Cloud** and **PostgreSQL databases**. Established a mapping check for cross-database product matching and performed routine price mismatch checks. Deployed a **Python** program to delete local data, load Cloud data, recalculate prices, and email a list of affected products to the users, **reducing** support ticket volume by **50%**
- **Data Migration Validator:** Led the development of a validation program with **Python, PostgreSQL** for comparing source data with migrated data, including sections like Master Data, Historical and Planning Data, totaling over **35 million records**. Transformed the data by optimizing data types and re-labeling fields to ensure comparability, eliminating manual validation and leading to a **90% reduction** in validation **time**
- Assumed primary Subject Matter Expert role for project teams, providing technical guidance, validation tools, debugging and bug resolution
- Mentored and facilitated knowledge to onboard **5 new** team members, emphasizing maintainable code and detailed documentation

Software Engineer *June 2018 - Sept. 2021*
- **Automated Resource Notifier:** Deployed a **JavaScript**-based notifier to track recurring issues and address an Atlas issue prioritization challenge. Leveraging advanced analytics for technical insights and data-driven decision-making, it optimized issue prioritization, resulting in a **15% increase** in user engagement and a substantial decrease of over **200 weekly tickets**, leading to higher user satisfaction
- **Aging IR Notification System:** Implemented a robust integration of Jira task data with Support Tickets in **Google Sheets** via **Google Apps Script**, involved utilizing **Jira REST APIs** and mapping tickets to developers based on Jira IDs, enabling real-time issue status tracking and providing actionable daily summaries to technical teams facilitating automated SLA compliance checks and bolstering operational efficiency
- **Version Data Consistency Dashboard:** Harnessed **BigQuery** data to architect **data-rich dashboards**, streamlining the analysis of business planning across all subsidiaries, resulting in a **150-minute reduction** in monthly manual effort, enhancing data accuracy technical workflows
- Conducted regular code review sessions and designed **test scripts** to detect and fix bugs in code base, thus ensuring **data integrity**

Junior Software Engineer *June 2017 - June 2018*
- **CBP-P2A Integration:** Engineered **SAP ABAP (Open SQL)** programs to integrate financial data into Planning Applications, with a focus on efficiency. Collaborated with cross-functional teams and **lowered** processing time by **30%** through meticulous **ETL** processes and **validation**
- Streamlined month-end data freezing process through **automation**, with new programs and **workflows**, slashing completion time by **90%**
- Gained global business interaction expertise, achieving **75% SLA adherence** and ensuring user contentment post-issue resolution
- Spearheaded the Asia, America, and Europe divisions, excelling in resolving **175 incidents**, with a key focus on swift **software bug resolution**

PROJECTS

ScanJD : Job Description Summarizer (Software Development – Node.js, Express.js, JavaScript, React,js, AWS RDS, Firebase, ChatGPT)
- Built a **Chrome extension** for LinkedIn, scanning job descriptions and presenting concise results on the page, enhancing job search efficiency
- Employed **ChatGPT's API** in backend for job description analysis, extracting key metrics through advanced Prompt engineering techniques

National AI Institute For Exceptional Education Portal (Web Development – Python, FastAPI, JavaScript, AWS, HTML5, CSS3, MySQL, Git)
- Developed a responsive, high-traffic website using **FastAPI**, having an intuitive user interface reflecting the institute's digital identity
- Empowered faculty to manage research documents, track citations, and gain insights into their research impact through a **cloud** platform

COVID Vaccination Slot Notifier (Web Development – Python, FastAPI, JavaScript, HTML5, CSS3, MySQL, Google Firebase)
- Created a notifier system utilizing **Python**, **Flask**, **API's** with **MySQL** as the database, supporting **CRUD** functionalities
- Monitored vaccination slots in **real-time** based on pincode and promptly notified users via email about the available slots

StockNow – Stock Trading Platform (Software Development – Python, Django, Machine Learning, Predictive Modelling, PostgreSQL)
- Designed an MVC architecture-based platform using **Python**, **Django**, incorporating Quandl's API for financial data and **PostgreSQL**
- Integrated diverse financial data sources, leveraging SVM as its primary model for prediction, leading to an efficient trading strategy

HONORS

Chairman's You Can Make a Difference Awards | Colgate: Honored **twice** in 2020 for key contributions to Atlas – **Europe and South Pacific**
GSSO Oscar Awards | Colgate: Recognized **twice** in 2019 for **maximum ticket** resolutions with **minimal turnaround** time across **20** teams