Prajay Sachdev

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PROFESSIONAL SUMMARY

Computer Science graduate student with 3+ years of experience as Software Engineer. Delivered multiple web applications deployed across 24 countries with increased user engagement by 30%. Among the top 10% performers at graduate school. Seeking Summer 2022 Internship.

EDUCATION

Stevens Institute of Technology, Hoboken, New Jersey **August 2021 – May 2023**
Master of Science in Computer Science, *Merit-scholarship student* **CGPA: 3.66**
Course work: Data Structures and Algorithms, Advance Algorithm Design and Implementation, Knowledge Discovery Data Mining, Web Programming, Statistical Machine Learning

NMIMS University, Mumbai **August 2013 – July 2017**
Bachelor's Degree in Information Technology

SKILLS

Languages, Databases and Tools **:** Java, Python, Node.js, Express.js**,** MySQL, PostgreSQL, MongoDB/ NoSQL
Technical Expertise **:** Spring-Boot, Spring-MVC, OAuth 2.0, Git, Jira, Agile, AWS (EC2, ELB, ASG, RDS, S3, ElastiCache)

WORK EXPERIENCE

Software Engineer - Dure Technologies, Mumbai **July 2017 – May 2021**
Product: iMonitor – Implementations by UNICEF, UNOPS, and USAID across 25+ countries

- Led the development of a platform called "iMonitor" which enables evidence-based advocacy for patients and health workers to contribute ground level information public health program in areas of HIV, TB, Malaria, COVID-19, etc.
- Developed several critical features and migrated the application from Spring MVC to Spring Boot framework, which led to 15% decrease in response time and 40% decrease in application size.
- Optimized user experience by reducing the Turn Around Time (TAT) of the REST APIs by more than 60%.

Product: iVizard

- Conducted a deep Performance Engineering redesign to scale the architecture to accommodate 300,000+ users. This was accomplished by redesigning MongoDB collections and reworking a large number of MySQL tables and stored procedures.
- Collaborated with the CTO to implement NLP-based chatbot across channels like WhatsApp, Facebook Messenger, and Telegram which will be used by 50,000+ health workers and patients.
- Created proof of concepts with payment gateway – mPesa by Vodafone and blockchain ledger which would empower organizations to enable incentivization services for their 45,000+ volunteers in Africa.
- Mentored a team of 3 interns and groomed them to increasing responsibilities.

Project: Co-Win – World's Largest Covid Vaccination Drive - World Health Organization (WHO) and Govt. of India

- Co-Win is an initiative to drive more than 1B+ in India and other countries to get vaccinated post the pandemic of '20.
- Developed the API interface – REST APIs to capture Adverse Events (side effects of the vaccine) following Immunization (AEFIs) from all the Covid-19 vaccination centers across India to a central database.
- Handled 500,000/ min and created backup solution to ensure business continuity by developing scheduled CRON job to a remote PostgreSQL database.
- Built Open APIs that would provide developers with a list of Covid vaccination centers attracting 70,000+ requests/ sec.

ACADEMIC PROJECTS

Event Nest - *https://github.com/DanielWu1/Group-9-event-nest*

- Developed an event management and ticketing website which allowed users to browse, create, promote 100+ local events.
- Worked on Node.js, Express.js and MongoDB to develop RESTful web application, and used SendGrid for auto-emailing functionality to recommend Nearby events, Upcoming events.
- Enforced security mechanism using middleware authentication and storing Cookies for the Session.

Credit Card Fraud Detection - *https://github.com/prajay24/creditcard-fraud-detection*

- Implemented Machine Learning algorithms to classify abnormal credit card transactions on a dataset of ~300,000 records.
- Designed classification models like Logistic Regression, K Nearest Neighbors, Decision Trees, Support Vector Machines, XGBoost using Python modules like sklearn with accuracies more than 75%. Used matplotlib and seaborne for Viz.
- Identified XGBoost model to be more accurate with an accuracy of ~90% and a F1 score of ~75%.

Telecom Churn - *https://github.com/prajay24/telecom-churn*

- Analyzed data of ~100,000 telecom customers, built predictive models to identify customers at high risk of churn and identified main 12 indicators of churn. Utilized Python libraries like sklearn, statsmodel. Provided insights and proposals.
- Performed PCA and built logistic regression model, decision tree classifier, random forest with hyperparameter tuning with accuracies ranging from 72% to 90%.