Dhruvkumar Raipure

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EDUCATION

University of California, Irvine — **Expected December 2023**
Master of Computer Science (MCS) — CGPA: 3.93/4.0
Coursework – Algorithms, Data Structures, Machine Learning, Computer Security, Text Processing

Manipal Institute of Technology, Manipal, India — **July 2018 - July 2022**
Bachelor of Technology in Computer and Communication Engineering — CGPA: 3.8/4.0
Coursework – Data Structures, Object Oriented Programming, Analysis of Algorithms, Operating Systems, Big Data

TECHNICAL SKILLS

Programming languages: C++, C, Java, SQL, Dart, Python
Web Technologies: HTML5, CSS, React, JavaScript, Node.js, Flutter, RESTApi
Developer Tools: VS Code, IntelliJ, Slack, Jira, Git/GitHub, MATLAB
Operating Systems: Windows, Linux
Miscellaneous: MongoDB, Camunda, Unity, Firebase
AWS Cloud : EC2, S3, Lambda, VPC, CloudFront

EXPERIENCE

BlackRock, Mumbai, India — **January 2022 – June 2022**
Software Engineering Intern
- Engineered robust features for **Java-based** AlphaSync server, enabling seamless handling of client data. Developed an **API** with locking mechanism for ledger transactions that prevented 10-15 race conditions/minute, enhanced system stability, and ensuring data consistency.
- Integrated **Angular**, **SpringBoot**, and **Camunda BPMN** platforms at BlackRock, optimizing system performance, streamlining workflows, and reducing process execution time by 50%, substantially boosting productivity.
- Led a team in developing **Camunda**-based Document Approval application, reducing 30% time by automating tasks, and improving efficiency by streamlining workflows.

Yellow.ai, Bengaluru, India — **June 2021 – September 2021**
Engineering Platform Intern
- Developed interactive Conversational AI Platform components, which when incorporated in 7+ landing pages resulted in 40% increased user engagement. Utilized **React**, **TypeScript**, and **Node.js** for high-quality user experiences.
- Analyzed and incorporated front-end library - **ANT Design**, which is compatible with **React** that was used as an alternative to **Bootstrap**.
- Optimized component rendering speed by 16% using **code splitting**, **lazy loading**, and **responsive design** techniques, resulting in a fast, seamless interface, boosting user satisfaction and engagement.
- Simultaneously implemented platform and tested components using **React Testing Library** and **Cypress**, enhancing maintainability and production release.

CodeSpeedy Technology, Remote — **February 2021 - March 2021**
Programming Intern
- Wrote three reusable modularized **C++** packets which could be incorporated in any project, saving billable hours for end users by 90%.
- Implemented these packets using Data Structures like Stacks, Trees and Graphs that can be used as an external imported library.

IBM, Pune, India — **September 2020 – December 2020**
Global Remote Project Intern
- Converted legacy Java Servlet application to **MERN** tech stack for 10+ B2B Utilities, enabling users to consume and record execution for analytical reporting, benefiting over 150 IBM users.
- Developed B2B web application integrating **CloudantDB** and serverless functions used in business tools for IBM's internal transactions.

ACADEMIC PROJECTS AND PUBLICATIONS

Texera – University of California, Irvine (Capstone, Open-Source Project) ***(Python, Angular, JavaScript, Java)***
- Improved **Python** Code Editor in Texera with advanced features like on-hover popups, auto-complete, suggestions, and syntax highlighting, syntax checking.
- Introduced difference editor enabling easy code and version comparisons as seen on version control tools like **GitHub**.

BitNews – Manipal Hackathon 2021 ***(HTML, CSS, JavaScript, Smart Contracts, Node.js, Flask)***
- Designed and implemented a blockchain-based web application utilizing **smart contracts** and geo tagging to achieve an 86.8% accuracy in filtering out fake news while securely storing real news in the **blockchain**.
- Implemented a user-centric design concept utilizing a threshold point system for accessing the news chain and its modifications, along with upvoting mechanisms for authenticity and point rewards based on user interactions.
- Developed a project with the primary objective of enhancing auditor access and establishing a resilient network for authentic news distribution.

ReviewBay – Smart India Hackathon 2020 ***(React.js, JavaScript, Node.js, Chart.js, Scikit-learn, NLTK)***
- Built a **sentiment analysis** application addressing an **ISRO** (Indian Space Research Organization) problem statement, categorizing data into three categories and performing **exploratory data analysis** on surveys, tweets, and campaigns.
- Achieved an 81.4% accuracy in data categorization into positive, negative, neutral reviews with the implemented sentiment analysis model.
- Developed a model that analyzes quotes and tweets to provide valuable feedback on topics or products, empowering businesses to gain insights into customer behavior, improve product evaluation, and enhance overall customer satisfaction.

Secure Sharing of Textual Data Using Hybrid Encryption Algorithms in a Client-Server Model (Publication Link)