NOLITA REGO

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SUMMARY

Software Engineer proficient in Python, NodeJS, and JavaScript, with strong designing, problem-solving skills, debugging, quality assurance testing, and Agile Development and Test Driven Development. Equipped with in-depth knowledge of algorithms, cloud services (AWS, OCI), and frontend frameworks (ReactJS, AngularJS, Flutter). Adept at leading teams and innovative initiatives, and adeptly leveraging Flask, REST API, Git, and DevOps technologies.

EDUCATION

Master of Science in Computer Science - **Santa Clara University,** Santa Clara, CA, USA   *June 2023*

Bachelor of Engineering in Computer Engineering - **University of Mumbai**, Mumbai, India   *June 2021*

Courses: Algorithms, Data Structures, Database Systems, Cloud Computing, Operating Systems, Machine Learning, Distributed Systems, Software Design Pattern, Microservices, Computer Architecture, Data Visualization & Analytics, Object Oriented Programming, Web/Mobile Development, Artificial Intelligence.

SKILLS

- **Languages:** Python, JavaScript, Java, C, C#, TypeScript, Kotlin
- **Frontend Frameworks:** React.JS, AngularJS, Flutter, React Native, Redux, Material-UI, HTML, CSS, Bootstrap, VueJS, jQuery, AJAX
- **Backend Frameworks:** Node.js, Flask, REST API, JSON
- **Databases:** SQL, SQLite, PostgreSQL, NoSQL (Firebase, MongoDB)
- **Cloud Platforms:** AWS (S3, EC2, DynamoDB, SNS Lambda), Oracle Cloud Infrastructure (OCI), Microsoft Azure, Docker
- **Developer Tools:** Figma, Git, GitHub, Postman, Linux, npm, MS PowerPoint/Excel, Google sheets/slides, Tableau, Bitbucket, Webpack, Jira, Kanban

EXPERIENCE

Software Application Developer - **SCU Frugal Innovation Hub, Santa Clara, CA**   *July 2023 - Present*
- Spearheaded a team of 3 to develop a multi-tenant hybrid app for Belgian clients Flutter-Dart, designing high-fidelity UI prototypes, local storage for offline functionality, integrated Dialogflow chatbot, and reviewed CI/CD data pipelines, alongside improved UX and customer service.
- Collaborated in launching cross-platform projects - ASL Facilitator for Uganda, and Social Impact Platform for Belgium in JavaScript, Dart, SASS, Spring MVC, and AWS, performed code changes/reviews, debugging and code coverage in Jest, and app migration.
- Pioneered 100% cost-efficient solutions, and steered end-to-end development of 15 multilingual apps to track project success, language support, launch strategy, and performance analytics.

Software Development Intern - **Mitchell International Inc., San Diego, CA**   *June 2022 - September 2022*
- Collaborated with the Auto Physical Damage unit for the product development team to improve 90% of software testing solutions in C# using MSTest, and Selenium.
- Prepared test plans and test cases to verify software quality, troubleshooting, performance tuning, reducing code complexity, fixing code smell, and blockers in SonarQube, and checking CI/CD pipeline development and code quality analysis.
- Developed cost estimation tool using machine learning algorithms and ReactJS for the front end, enhancing accuracy in estimating repair costs. Executed a car estimate auto-suggestion large scale system with Trie data structure, and distributed it across multiple shards.
- Aided sibling team interns in building Java unit tests with JUnit, decreasing blockers and passing 82% of test cases.

Mobile Application Developer Intern - **FashionTV India, New Delhi, India**   *June 2020 - August 2020*
- Developed and successfully launched an online Wellness course platform, leveraging Flutter-SDK framework, including 2-step MFA Authentication, and Cloud Firestore for asynchronous data storage, and designed Adobe paradigms, increasing 85% of reliable UI with further deployment.
- Maintained an admin platform to handle user data, courses, video processing, JWT token authentication, and Postman for testing HTTP endpoints.

PROJECTS

Home-based Food Business Website - *ReactJS, Tailwind CSS, Amazon SNS, AWS DynamoDB*
- Designed a responsive web application to accept orders and handle pickup/delivery. Used React for UI, integrated Amazon SNS for real-time notifications, and utilized Fetch API to make HTTP requests to trigger the execution of AWS DynamoDB.

FlexPay - Payment and Transaction Application - *JavaScript, OCI, Node.js, MongoDB, Python*
- Engineered an e-commerce app that handles transactions, used JavaScript, and Spring Boot, hosted on Oracle Cloud, integrated Microsoft Multi-factor Auth for security, and utilized Nginx, Express for HTTP handling and server management, and MongoDB Atlas for database.

Social Media Analysis for Mental Health Evaluation - *Python, Flutter, REST API, CNN, NLP, Flask, Firestore*
- Developed an ecosystem to analyze user's mental health using social media live data. Integrated REST API for data exchange with OAuth 2.0, utilized Flask-integrated CNN-NLP model, Twilio for notification/alerts, and DialogFlow for chatbot service, achieving 89.28% test accuracy.

CERTIFICATIONS

- **Meta** Front-End Developer
- **Microsoft** Azure AI Fundamentals
- **Google Cloud's** Generative AI with Large Language Models
- **Oracle** Cloud Infrastructure Foundations
- **AWS** Fundamentals: Going Cloud Native
- **DeepLearning.AI's** Neural Network & Deep Learning

PUBLICATION AND RECOGNITIONS

- Published a **technical paper** on "*Social Media Analysis for Mental Health Evaluation*" at IJRASET, Vol. 9 Issue IV, April 2021.
- Served as a **Judge and mentor** for UnScript 2022 National Level Hackathon, India.
- **Won first place** in the Open-source Innovation domain in Crescendo Hackathon 2021, created a License Plate Detector in Smart India Hackathon 2020, and developed an Internal Placement System in Synergy Hackathon 2019.