

SOLOMON EMMANUEL THOMPSON I

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WORK EXPERIENCE

BNP Paribas

Software Engineer

Chennai, TN, India

Aug 2022 – Current

- Utilized Spring Batch, Java and REST API to modernize legacy applications by implementing a microservices architecture.
- Led a thorough upgrade initiative, transitioning from outdated jars to the most recent versions, resulting in a 44% decrease in maintenance overhead. This effort significantly improved system efficiency and stability.
- Detected and resolved vulnerabilities in code repositories through the utilization of Fortify, reducing potential risks by 40% and fortifying the codebase to ensure enhanced security and resilience.
- Leveraged JUnit to implement effective strategies aimed at maximizing code coverage within SonarQube, leading to a notable 73% enhancement in the overall test coverage across each repository.

BNP Paribas

Software Engineer Intern

Chennai, TN, India

Jan 2022 – Aug 2022

- Utilized Java and SQL programming languages to enhance data processing capabilities, leading to a 30% increase in data accuracy for derivative trades.
- Developed and implemented automated testing scripts for release processes, which helped in reducing the occurrence of production issues during monthly release cycles.
- Analyzed and resolved complex integration issues within the post-trade layer, resulting in a 25% decrease in trade settlement errors and improving client satisfaction ratings.

National Institute of Wind Energy (NIWE)

Data Automation Intern

Chennai, TN, India

Mar 2021 – Aug 2021

- Engineered and launched a web-based application streamlining registration and management for active wind masts in India, which successfully reduced administrative workload by 40%.
- Leveraged Mapbox API to enhance data visualization, providing stakeholders with an interactive platform.
- Orchestrated rigorous testing and debugging of the web application to uncover and rectify performance bottlenecks, increasing site speed by 65% and ensuring seamless user experience across diverse scenarios.

EDUCATION

Loyola-ICAM College of Engineering and Technology (LICET)

Bachelor of Engineering (Computer Science and Engineering)

Chennai, TN, India

Jul 2018 – May 2022

- Mini Project: Voice Assistant with Facial Recognition (LUCAS), built using python, ML and third-party APIs.
- Major Project: Student Assessment and Analysis System, that is built for my college to manage student data.
- Relevant Coursework: Software Engineering; Operating Systems; Algorithms; Artificial Intelligence; Cloud Computing

PERSONAL PROJECTS

- **Adventures of Jake (An open world 2D game)** – An Open world RPG 2D game as a part of MLH "Hack-cade" Hackathon held on May 28 – 30, 2021. (Unity, C#)
- **Message Toxicity Classifier** – A project that helps to detect and classify messages as toxic, threat, insult, obscene and racism using deep learning with the help of data obtained through Kaggle. (Python)
- **Social Book** – A Full stack social media clone featuring user profiles, posts, and interactions (Python, Django)
- **Street Fighter AI** – An AI that plays Capcom's "Street Fighter II Special Champion Edition". (Python, Tensorflow)

SKILLS

Languages: Python, Java, C++, Go, JavaScript

Lib/Frameworks: Spring, Django, Junit, Numpy, Pandas, Scikit-Learn, TensorFlow, Pytorch, NodeJS

Platforms: AWS, Google Cloud Platform, Linux

Tools: Git, Jenkins, Docker, Unreal Engine, Unity

Databases: SQL, MongoDB.

ADDITIONAL

Online Courses: Architecting with Google Compute Engine; Google IT Support.

Portfolio: <https://portfolio-website-one-gamma-33.vercel.app/>

Github: <https://github.com/Prototype4988>