

BHARGAV SINGAPURI

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PROFESSIONAL SUMMARY

Highly skilled Software Engineer with expertise in **Full Stack** development, **AI**, **Machine Learning**, and **NLP**. At UOB, I enhanced security, improved operational efficiency, and provided business insights through key projects.

Internships at Vertex Holdings and Upskills involved building Full Stack apps with **Django-React** and **Angular-Flask**, respectively, and deploying on **GCP** and **Docker**. Significant projects include using **HuggingFace** and **PyTorch Lightning** for industry prediction and **TensorFlow** for news categorization and summarization. Proficient in **Java**, **Python**, **Airflow**, and various ML frameworks.

Seeking a research-oriented or Senior Software Engineer role to leverage my skills in innovative, cutting-edge projects.

PROFESSIONAL EXPERIENCE

United Overseas Bank

Singapore

Software Engineer

July 2023 - August 2024

- Upgraded encryption from a vulnerable algorithm to a secure version using Axway's API Gateway and PolicyStudio, resulting in increased customer security.
- Managed extensive documentation and client communication to ensure smooth transition and compliance.
- Designed and implemented a Splunk-based dashboard to monitor server health, displaying critical metrics such as transactions per second and HTTP statuses.
- Collaborated with the Splunk Dashboard software team to ensure accurate log generation, ingestion, and display, significantly reducing diagnostic time from hours to seconds.
- Created a pipeline using Excel with PowerQuery and Pivot Tables to log and analyze API transaction volume by API, type, and country.
- Enabled business teams to forecast API usage accurately, aiding in resource allocation and transforming the cost center into a profit center through user-based charging.

Vertex Holdings Pte. Ltd.

Singapore

Full Stack Software Engineer Intern

December 2021 - April 2023

- Built and deployed a Full Stack Django-React app on GCP using Terraform for internal company use that simplified processes for the various Funds under the Vertex umbrella.
- Ingested data from external databases, APIs and websites using Python Scripts and Airflow to expand the data available to the various Funds that allowed for better outreach opportunities and improved investment decisions.

Upskills Pte. Ltd.

Singapore

Full Stack Software Engineer Intern

May 2021 - July 2021

- Lead a team of Interns to create a Full Stack application in Angular, Flask and MongoDB that was deployed using Docker for demonstrations to large local banks.
- Collaborated with an International Developer Team to create an internal Software Licensing and tracking system that was used by the company to ensure that customers stayed within contractual obligations.

CERTIFICATIONS

AWS Cloud Practitioner Essentials (SF)

PROJECTS & OTHER EXPERIENCE

Industry Sponsored Final Year Project

August 2022 - May 2023

Work-Study Degree ISFYP Attaché

- Employed state-of-the-art algorithm design techniques to create classifiers that predict LinkedIn Industries from a company's description using HuggingFace, PyTorch Lightning, and AWS, aligning with fintech business objectives.
- Deployed the classifiers to the company's existing CRM tool, aiding Investment managers in making informed investing decisions.
- Trained, fine-tuned, and tuned the supervised machine learning models, ensuring optimal performance and tuning.
- Utilized git for version control to track changes in the model architecture and WandB for monitoring model metrics and storing artefacts.

Neural Networks and Deep Learning

August 2021 - November 2021

Undergraduate

- Developed Deep Neural Network models in TensorFlow for categorizing and summarizing news articles, employing unsupervised LSTM Seq-2-Seq and a supervised Classifier model with an emphasis on data-driven analytics.
- Achieved over 60% categorization accuracy and produced adequate summaries, demonstrating proficiency in machine learning.
- Utilized scikit-learn for data processing pipelines and quantitative evaluation of model performance, ensuring data models met performance metrics.

EDUCATION

Northeastern University

September 2024 - May 2026

Master's, Artificial Intelligence

Nanyang Technological University (NTU)

August 2019 - May 2023

Bachelor's, Data Science and Artificial Intelligence

- Relevant Coursework: Neural Networks and Deep Learning, Natural Language Processing, Information Retrieval, Data Analysis & Mining, Software Engineering, Databases, Data Visualisation, Calculus, Linear Algebra, Statistics, Regression Analysis, Simulation Techniques in Finance, Multivariate Analysis, Time Series Analysis, Basic Optimisation.
- CCAs: Hall Student Council, Hall Darts Team, Hall Frisbee Team.

SKILLS

Skills: Next.js, Node.js, AngularJS, Adobe Photoshop, Agile, Android Development, AWS, Celery, Computer Vision, CUDA, Data Analysis, Data Science, Data Structures & Algorithms, Development Operations (DevOps), Django, Docker, Flask, Flutter, GraphQL, Heroku, iOS/Swift, JavaScript, JIRA, jQuery, Jupyter, Git, HTML/CSS, Java, Airflow, Keras, Linux/Unix, C/C++, Maven, Microsoft Azure, R, MongoDB, MySQL, Python NLTK, NumPy, Pandas, Objective-C, Postgres, Postman, Pytorch, React.js, REST APIs, Ruby, Ruby on Rails, SCRUM, Snowflake, SQL, Tableau, Tensorflow, Terraform, Natural Language Processing (NLP), Kubernetes, Python, MATLAB, Nginx, TypeScript, UI/UX Design, Video Editing, Web Development, Sentry, NoSQL, Word/Pages/Docs, Excel/Numbers/Sheets, Blockchain, Digital Ocean, Financial analysis, Firebase, Software Testing, TCP/IP, Vercel, SpaCy, Adobe Lightroom, Babel, Blender, Bootstrap, Confluence, Figma, Google Cloud Platform, Oracle, PowerPoint/Keynote/Slides, Public Speaking, Selenium, Wireframe, Yarn

Languages: Hindi, Gujarati, English

Interests: Cycling, Photography, Running