

# BHARGAV SINGAPURI

jobs@bhargav.io | <https://www.linkedin.com/in/bhargav-singapuri>

<https://github.com/majulahsingapuri> | <https://bhargav.io/>

## PROFESSIONAL EXPERIENCE

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### Vertex Holdings Pte. Ltd.

Full Stack Software Engineer

Singapore

December 2021 - April 2023

- Leveraged algorithm design principles to develop and deploy a Full Stack Django backend and React frontend application using Agile software development methodologies on GCP, aligning with business objectives and strategy.
- Utilized Terraform on Google Cloud Platform (GCP) for infrastructure provisioning, ensuring compliance and efficient deployment processes for internal company use, simplifying processes for the various Funds under the Vertex umbrella.
- Conducted data mining and data-driven analysis by ingesting data from external databases, APIs, and websites using Python Scripts and Airflow, expanding available data sets for better forecasting and investment decisions.
- Collaborated with cross-functional stakeholders to create an end-to-end solution that improved outreach opportunities and enhanced investment strategies.
- Implemented CI/CD pipelines for automated code linting, testing, and deployment with Github Actions and Google Container Repository, optimizing performance metrics and monitoring.

### Upskills Pte. Ltd.

Full Stack Software Engineer

Singapore

May 2021 - July 2021

- Led a team of Interns in the development of a Full Stack application in Angular, Flask, and MongoDB, ensuring object-oriented design and application development, deployed using Docker for demonstrations to large local banks.
- Collaborated with an International Developer Team to create an internal Software Licensing and tracking system, aligning with business strategy and compliance needs, to ensure that customers stayed within contractual obligations.
- Authored extensive documentation to facilitate comprehension of the codebase and APIs by team members.

## PROJECTS & OUTSIDE EXPERIENCE

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### Industry Sponsored Final Year Project

Work-Study Degree ISFYP Attaché

Vertex Holdings Pte. Ltd

August 2022 - May 2023

- 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

Undergraduate

Nanyang Technological University

August 2021 - November 2021

- 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

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### Nanyang Technological University (NTU)

Bachelor's, Data Science and Artificial Intelligence

**Relevant Courses:** 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.

## SKILLS & INTERESTS

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**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

**Languages:** Hindi, Gujarati

**Interests:** Cycling, Photography, Video Games, Cooking