Bhargav Singapuri

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PROFESSIONAL SUMMARY

Highly skilled Software Engineer with expertise in Full Stack development, AI, Machine Learning, and Natural Language Programming. Proficient in Python, Java, and various Machine Learning and Software Engineering frameworks. Seeking a research-oriented, AI/ML or Software Engineer role to leverage my skills in innovative, cutting-edge projects.

EDUCATION

- **Northeastern University** — Boston, MA
  Master of Science in Artificial Intelligence — September 2024 – December 2026(Exp.)
  - **Courses**: Programming Design Paradigms, Algorithms

- **Nanyang Technological University** — Singapore
  Bachelor of Science in Data Science and Artifical Intelligence — August 2019 – May 2023
  - **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.

EXPERIENCE

- **United Overseas Bank** — Singapore
  Software Engineer — July 2023 – August 2024
  - **API Transaction Pipeline**: Created a pipeline using **Excel** with **PowerQuery** and Pivot Tables to log and analyse over 10M API transactions by API, type, and country, enabling key decision holders to make compute resource allocation decisions and manage costs.
  - **Splunk Dashboard**: Designed and implemented a **Splunk** dashboard to monitor server health, displaying critical metrics such as transactions per second and HTTP statuses, reducing diagnostic time from over 10 hours to under 10 seconds.
  - **API Security**: Upgraded API encryption algorithms with Axway's **API Gateway** and **PolicyStudio**, resulting in increased customer security.

- **Vertex Holdings** — Singapore
  Data Science and Software Engineer Intern — December 2021 – April 2023
  - **Full Stack Application**: Developed a **Django-React** application on **Google Cloud Platform** utilising **Terraform** for internal company use, simplifying processes for various Funds under the Vertex umbrella.
  - **Data Science**: Ingested over 1M data points from external databases, APIs and websites using **Python** Scripts, **SQL** and **Airflow** to expand data availability to various Funds, allowing for better outreach opportunities and improved investment decisions.

- **Upskills Pte. Ltd.** — Singapore
  Software Engineering Intern — May 2021 – July 2021
  - **Full Stack Application**: Lead a team of Interns to create a Document Tracking application in **Angular**, **Flask** and **MongoDB** that was deployed using **Docker**.
  - **Licensing Server**: 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.

PROJECTS

- **Vertex Holdings** — Singapore
  Industry Sponsored Final Year Project — August 2022 – May 2023
  - **Model Training**: Employed state-of-the-art algorithm design techniques to train classifiers to predict a company's industry from its description using **HuggingFace**, **PyTorch Lightning**, and **Amazon Web Services**, aligning with fintech business objectives.
  - **Model Deployment**: Deployed classifier to the company's existing CRM tool, aiding Investment managers in making informed investing decisions

- **Potaxito**: A web and **iOS** application hosted in **Firebase** that recommends the best taxi stand for commuters based on the commuter's location and current taxi distribution around Singapore using open government data.
- **PayLah2CSV**: A **PyScript** tool to extract bank PDF statements to a CSV file.
- **Django-Ninja-Auth**: Python Library that bridges **Django-Ninja** with **Allauth** for authentication using Cookie, Token and JWT Authentication.
- **Java Image Editor**: Basic image manipulation application written in **Java** for Northeastern Programming Design Paradigms course.

SKILLS

- **Programming Languages**: Python, TypeScript, Javascript, SQL, Java, C/C++, R, Ruby

- **Developer Operations**: Docker, Nginx, Caddy, Git, Airflow, Celery, Sentry, Postgres, Postman, MongoDB

- **Cloud Platforms**: Firebase, Heroku, Digital Ocean, Vercel, Azure, Google Cloud Platform, Amazon Web Services

- **ML/AI**: Computer Vision, Keras, Tensorflow, SpaCy, WandB

- **Data Science**: Data Analysis, Jupyter, Tableau, MATLAB, NLTK, NumPy, Pandas, Snowflake

- **Frameworks**: Flask, Flutter, HTML/CSS, Next.js, Node.js, AngularJS, Maven, Yarn

- **Languages**: Hindi, Gujarati, English