

Abhijith Chandran

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EDUCATION

Brown University

Bachelor of Science in Applied Math-Computer Science, GPA: 4.0

Providence, RI

Aug 2022 – May 2026

UWC Mahindra

International Baccalaureate Diploma

Pune, India

June. 2020 – May 2022

EXPERIENCE

Ernst & Young

Software Developer Intern

May 2023 – July 2023

Mumbai, India

- Developed a REST API using FastAPI, Docker and MySQL to serve predictions generated by a PyTorch Model
- Created a front-end using HTML5, CSS3, and React.js to showcase predictions by different models
- Deployed the code using AWS EC2, S3 and Lambda functions. Managed CI/CD with CircleCI
- Set up a Kibana dashboard to create custom dashboards and analyze metrics

GeoData@Brown

Machine Learning & Data Researcher

August 2023 – Present

Providence, RI

- Analyzing satellite imagery to identify targeted deforestation in rural populations of South Asia
- Created a dataset of 100,000+ satellite imagery and trained a Vision Transformer (ViT) with a custom classifier for prediction
- Created a custom geo-coding service for the continental United States using Python, Postgres, PostGIS and pgRouting. Hosted on an on-prem Linux server

Lawculus

Software Engineering Intern

May 2022 – July 2022

Remote/Germany

- Created a semantic search engine for lawyers to retrieve past precedents and relevant case laws
- Trained an LSTM model to generate embeddings for all cases and case laws since 1950
- Set up an ElasticSearch instance to use cosine similarity to retrieve relevant results. Built a REST interface to call from the web app

PROJECTS

Pyberg | Python, BeautifulSoup, CI/CD, Numpy, Pytest

Jan 2023 – Present

- Developing an open source alternative to the Bloomberg Terminal for Python
- Wrote scripts for scraping a variety of financial data, crunching numbers, technical analysis and models to analyze data and make predictions
- 50+ GitHub stars, 1,000+ downloads on PyPI, 10+ issues resolved
- Python Frameworks used - Pandas, Numpy, BeautifulSoup, PyTorch, Transformers

Penden | Python, JavaScript, PyTorch, Transformers, ElasticSearch, AWS

November 2021 – August 2022

- Developed a Chrome extension to make any website on the internet searchable for visually challenged users
- Created a custom dataset, trained and developed a Siamese BERT model
- Hosted the model on AWS S3 via FastAPI and created an ElasticSearch index to store the vector embeddings
- Created a Chrome extension using JavaScript which calls upon the backend services
- The project won the 2nd Grand Award in the category of Robotics and Intelligent Machines at the Regeneron ISEF 2022

Reaf | Swift, SwiftUI, Python, GCP, Firebase

September 2022 – May 2023

- Created an iOS app using SwiftUI to aggregate second hand fashion
- Wrote the backend service using Python, Firebase and GCP Cloud Functions

TECHNICAL SKILLS

Languages: Java, Python, Swift, C, MySQL, Postgres, JavaScript, HTML/CSS, R

Frameworks: React, Node.js, ElasticSearch, Flask, FastAPI, TensorFlow, PyTorch, Firebase, scikit-learn, Tableau

Developer Tools: Git, Docker, Kubernetes, CircleCI, AWS, Google Cloud Platform, VS Code

Libraries: pandas, NumPy, Matplotlib, Selenium, BeautifulSoup