


# Keyur Narotomo

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## Education

### University College London

Sep 2020 - Jun 2024

MEng Computer Science with a minor in Intelligent Systems (*1st Class Honours Achieved*)

- Computer Science: Systems Engineering, Mathematics & Statistics, Logic, Computer Systems, Financial Markets.
- Intelligent Systems: highly competitive ML & Robotics minor accepting only the **top 10%** of Engineering students.

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## Relevant Experience

### G-Research

July 2023 – Sep 2023

Software Engineering Intern

London, England

- Member of the Office of the CTO Architecture team tasked with developing a service that enables quantitative researchers to save time and resources with the computation of batch jobs.
- Curated and analysed a dataset of historic jobs in **Python** using **Dask** and identified savings worth **~\$115 million p.a.**
- Developed and deployed a regression model which is forecasted to save **\$1.6 million p.a.**
- Improved the UI and refactored the API of an internal inventory management system, as a side project, using **C#**.

### Expedia Group (EG)

Jun 2022 - Aug 2022

Full Stack SDE Intern

London, England

- Joined the eIT (Expedia IT) data & insights team to help assist them with building internal tools and applications.
- Built a centralised platform that collects, stores, and displays data regarding the accessibility of the different products used by EG with a key goal being to route the data through the EG Data Lake.
- Developed using **JavaScript**, **AWS**, **Docker**, **Microsoft Graph API**, **PowerAutomate**, and **Tableau**, worked in an agile development methodology, and developed an understanding of CI/CD pipelines.
- Successfully deployed into production allowing EG to assess the accessibility of different products giving them the ability to make data-driven decisions on employee impact and prioritization.

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## Notable Projects

### MotionInput

Microsoft, Intel, UCL

- Developed software that enables touchless navigation for Windows devices using a standard webcam, through gesture and motion recognition, without the need for specialised hardware.
- Added first-of-its-kind features of typing and drawing in the air along with increasing the number of supported touchpoints fivefold using **Python**, **MediaPipe**, **OpenCV**, and the **Win32 API**.
- Won multiple accolades including the **BSc EDI Award 2022**.

### Tweet Classifier

Personal Project

- Developed a ML model that performs sentiment analysis on tweets with a given hashtag/keyword and classifies them into different categories, in **Python** using **Pandas**, **scikit-learn**, and **Tweepy**.
- Cleaned, enriched, and compiled data from various sources to construct a dataset before training multiple ML models and implemented the model that performed best during ROC testing.
- Built the frontend using **React** and **JavaScript**, connected it to the backend with **Flask** and deployed the service successfully using **Heroku**.

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## Extracurricular Activities

### JP Morgan Code For Good London 2022

Oct 2022

- Achieved **1st place out of 18 teams** during the 24-hour Hackathon.
- Worked with Deafblind UK to build a social media platform that allows users with visual and hearing impairments to live a more inclusive life.

### Expedia Group Global Hackathon 2022

July 2022

- Achieved **1st place out of 182 teams** during the 4-day international hackathon winning **\$1500**.
- Designed, built, and showcased an extension to the Vrbo mobile app which simplifies user payments using **Kotlin**, **Python** and **Flask**, with our solution fast-tracked to being implemented into production.

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## Skills & Achievements

- Founding member of the UCL Computer Science Society
- Undergraduate TA for COMP0010 Software Engineering & COMP0016 Systems Engineering
- UEFA Euro 2020 London Squad Member
- **Fluent:** English, Gujarati
- **Proficient:** Python, Java; **Advanced:** C, JavaScript/React, SQL; **Intermediate:** C#, Haskell