Vignesh Mohanarajan <a href="https://www.linkedin.com/in/vignesh-mohanarajan/vignesh-mohanarajan.com/v

EDUCATION

University of Exeter September 2021 - June 2024

Bachelor of Science in Computer Science

First Class Degree: 78%

Awarded the Dean's Commendation – 2023.

Gems Modern Academy

International Baccalaureate – 38 points

September 2018 - June 2020

TECHNICAL SKILLS

Specializations

- Algorithms
- Backend
- Data ScienceData Visualization
- Machine Learning
- Natural Language Processing
- **Programming Languages and Tools**
- ✓ Python (Fluent)
- ✓ C/C++ (Practiced)
- MongoDB (Practiced)
- ✓ SQL (Proficient)
- ✓ Java (Practiced)
- Django (Adept)

PROFESSIONAL EXPERIENCE

Hatless Studios | Software firm offering bespoke solutions to a wide array of clients across Southwest England **Backend Developer:** *Python, Nix, Grafana*January 2023 – Present

- Engineered REST APIs using Django for various projects with a minimum test coverage of 75%.
- Worked well within teams of 4-6 developers across many projects to fulfill all deliverables in a timely manner.
- Identified and debugged urgent and critical issues company wide.
- Implemented payments processing for projects utilizing services such as Stripe.
- Developed a tool which utilizes natural language processing for classification and semantic matching.
- Boosted the efficiency of a project by migrating from a relational database to a graph database.
- Conducted interviews and established training programs for talent acquisition and onboarding.

Product Owner: June 2023 – Present

- Co-ordinated a team of developers and designers to deliver a project aimed to assist companies in calculating carbon emissions of their projects.
- Communicated with a client possessing domain knowledge to effectively translate their product vision into reality.

CoachBright Charitable Trust | Social mobility charity supporting young people in their education.

Head Tutor:

February 2022 – December 2022

• Led a team of tutors to teach socially disadvantaged students in GCSE Mathematics and Science.

CERTIFICATIONS AND ADDITONAL SKILLS

MongoDB University – MongoDB for Python Developers.

DataCamp – Completed the Data Science with Python Career Track

Diplôme d'études en langue Française (DELF) - B2 Diploma for Proficiency in French.

Languages: English, French (Fluent), Tamil, and Malayalam (Native knowledge)

ACADEMIC RESEARCH

Reinforcement learning in Football | Research intended on improving agent performance via the injection of domain-specific knowledge through reward-shaping in the Google Research Football environment.

BSc Dissertation: Reinforcement Learning, Statistical Modelling, TensorFlow, Python

September 2024 - June 2024

- Implemented multi-agent and single-agent reinforcement learning algorithms to assess the effect of a shaped reward function using advanced football statistics.
- Enabled the calculation and tracking of statistics of the teams using the state information output by the environment.
- Presented the study at the Exeter **PyData** conference.
- Awarded a final grade of 84%.