Vignesh Mohanarajan

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PROFILE

A final year Computer Science student with experience in backend development and project management with a proven track record in both having successfully overseen projects from start to finish as well as designing and developing quality software over a wide array of projects.

EDUCATION

University of Exeter
Bachelor of Science in Computer Science
Awarded the Dean's Commendation - 2023.
On track for a First Class Degree: 79%   June 2024

TECHNICAL SKILLS

Specializations
- Algorithms
- AI
- Data Science
- Data Structures
- Data Visualization
- Machine Learning
- Natural Language Processing

Programming Languages and Tools
- Python
- C/C++
- MongoDB
- SQL
- Java
- Django

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%.
- 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

Diplôme d'études en langue Française (DELF) - B2 Diploma for Proficiency in French.
MongoDB University – MongoDB for Python Developers.
DataCamp – Completed the Data Science with Python Career Track

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.