Gokul Menon

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Experience

Seamless 24/7 May 2023 to August 2023
Software Developer Intern
Birmingham

- Wrote and ran extensive testing of software prototypes capable of generating and analyzing varied datasets of background noise generated by Windows, for the purposes of threat detection against malware. Primarily employed Python for scripting and C++.

University of Birmingham June 2023 to September 2023
Undergraduate Research Assistant
Birmingham

- My main responsibility involved conducting research on and implementing various machine learning methods, to help build programs capable of generating 3D models of functional objects from technical drawings
- I also focused on writing programs automating the process of image collection/generation of sketches, used as training/test data for various models used
- Secondary responsibilities included a write-up of results from research conducted, for the purposes of future publication, as well as the implementation of a code pipeline to make further experiments easier.

Engineering and Physical Sciences Research Council July 2023 to September 2023
Vacation Research Internship
Birmingham

- Primarily involved in developing an algorithm that intelligently clusters radar measurements, with the result helping to form part of a system for simultaneous localization and mapping using a rotating sensor
- Submitted a paper to conference, decision pending.

Rutherford Appleton Laboratory July 2019 to August 2019
Scientific Computing Work Experience
Oxford

Skills

SQL, C/C++, Python, Bash, Git, Haskell.

Education

University of Birmingham 2024
BSc Computer Science
Birmingham

- Achieved a 1st, with a GPA of 4.00.
- Previously active member of Computer Science Society, with multiple contributions to the group's GitHub repository.
- University coursework involved securely implementing and investigating weakness in cryptographic protocols such as Diffie-Helman and HTTP. Another project involved using modern computer vision methods to analyse biofilm