

Vindhyaa Saravanan

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Finalist MEng, BSc student with cybersecurity and cloud security experience, and avid interest in cloud computing, machine learning and AI, looking for full-time opportunities from July 2025.

EDUCATION

The University of Leeds

MEng, BSc Computer Science

Leeds, England, UK

September 2021 – July 2025

- First, Second and Third Year Grades: First Class. On track for a First-Class Honours degree.
- Relevant modules: Software Engineering Principles, Machine Learning, User Adaptive Intelligent Systems, Information Visualization, Distributed Systems, Web Services and Web Data.

EXPERIENCE

Software Engineering Fellow

Headstarter AI

June 2024 – September 2024

Remote

- Led a team of 3+ software engineers to design, develop, and deploy full stack AI-powered applications.
- Coached by Amazon, Bloomberg and Capital One on agile, CI/CD, Git and microservices.

Summer Intern, Process Automation

Schneider Electric Systems Middle East

June 2024 – August 2024

Dubai, UAE

- Integrated workstations with a virtualized cybersecurity solution for client's existing SCADA systems.
- Facilitated Delivery Quality Procedure and Cybersecurity Factory Acceptance Testing documentation.
- Co-ordinated SCADA testing to evaluate configuration accuracy and response times, improving testing efficiency by 20%.
- Implemented Acronis cybersecurity to centrally deploy and manage group backup policies.

R&D Member of Staff - Apprentice

AVEVA Solutions

June 2023 – August 2023

Cambridge, England, UK

- Built a team-specific detailed visualization dashboard using Atlassian Jira, to provide a centralized view of all tasks, improving team performance and visibility by 30%.
- Monitored security alerts on Microsoft Azure Defender and AWS GuardDuty, reducing team response time by 40%.
- Performed a cost analysis of existing AWS Backup solutions and contributed changes to a large codebase in Azure DevOps that reduced backup costs by 15%.

Summer Intern, Cyber Security

Schneider Electric Systems Middle East

July 2022 – September 2022

Dubai, UAE

- Explored industrial control systems and cybersecurity principles to create a presentation on the IEC-62443 standard.
- Led a team of 9 in a qualitative analysis of SaaS licensing models for service providers, presented to company VPs, and secured 1st place for presentation skills and content quality.

PROJECTS

ChestMultiVision | Python, Streamlit, Tensorflow, Keras

Oct 2023 – April 2024

- Developed several CNN models using transfer learning to identify multiple findings in chest X-ray images.
- Utilized CRISP-ML project methodology, with custom data engineering of the NIH Chest-x ray dataset and data augmentation for creating a custom balanced dataset.
- Demonstrated application of the models as a web-based application, live at <https://chestmultivision.streamlit.app/>.

Simulated Weather Sensor System | Python, Azure Functions, Azure SQL Database

Nov 2023 – Dec 2023

- Simulated a weather sensor system using Python and Azure Functions for serverless architecture.
- Integrated an SQL database for deployment on Azure resources.
- Emphasized scalability and efficiency of solution, see <https://youtu.be/FN5VSJ49zEE>.

Vertex Sports Centre Application | Python, Flask, Stripe API, Git

February 2023 – April 2023

- Designed, implemented and improved components of a sports centre management web app using agile methodology, as a Full Stack Developer, UI designer and accessibility tester.
- Led team efforts to identify and resolve conflicts, adding additional features beyond the initial backlog.

TECHNICAL SKILLS

Languages: Python, Java, C, C++, HTML/CSS, JavaScript, SQL

Frameworks: Flask, Django, Streamlit

Developer Tools: Git, VS Code, Visual Studio, IntelliJ, Colab, Jupyter, Azure Portal, Azure Pipelines

Libraries: Tensorflow, Keras, OpenCV, scikit-learn, pandas, NumPy, Matplotlib