Ishani Kanapathipillai

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Education

BSc (Honours) Computer Science (University of Westminster) - First Class Honours
Nov 2024

Selected modules:
- Software Development (Python, Java, Java Swing, Java FX)
- Applied Artificial Intelligence (Python)
- Machine Learning and Data Mining (Python)
- Final Year Project (Python, JavaScript)
- Software Development Group Project (Python, GitHub Actions)
- Object Oriented Programming (Java)
- Algorithms: Theory, Design and Implementation (Java)
- Client-Server Architecture (Virtulisation, Java, REST API development)
- Database Systems (SQL)
- Cyber Security (Kali Linux, OWASP)
- Computer Systems Fundamentals

Projects

CoGen: UI Component Creation
Final Year Project- Languages: Python, HTML, CSS, JavaScript

- Developed a plugin to create UI components in Figma based on a prompt, using machine learning.
- Trained and evaluated three models: GRU based Seq2seq model, LSTM based Seq2seq model, and a fine-tuned T5 model (HuggingFace T5 Transformers).
- Used ngrok to expose the model (API Development) and used it in a Figma plugin.

Silent Voice: Sign Language Interpretation
Software Group Project **-** Languages: Python, GitHub Actions

Used CNN on Tensorflow to identify signs (sign language) and interpret them as letters in the English alphabet. Implemented CI/CD pipeline using GitHub Actions.

Segment Credit Card Customers
Customer Segmentation**-** Languages: Python

- Used and evaluated three AI techniques: K-means clustering, DBSCAN and GMM method for credit card customer segmentation.

Formula1 Car Racing Project
Car Management System**-** Languages: Java, Java Swing

- Implemented using the fundamental OOP principles.

REST API Design and Implementation
Health System**-** Languages: Java

- Implemented a REST API design using JAX-RS.

Experience

Junior UI/UX Engineer (CreativeHub Solutions (Pvt) Ltd)
Dec 2022 - Aug 2023

- Worked on UI/UX projects including client presentations and prototype development with style guides, wireframes, and UI designs.
- Worked and collaborated with developers and business analysts.

Intern UI/UX Engineer (CreativeHub Solutions (Pvt) Ltd)
Jun 2022 - Nov 2022

- Designed wireframes, UI designs, style guides and prototypes for eCommerce platforms, mobile apps, Saas products and websites.
- Worked alone on website and mobile application projects and collaborated with local and international clients.

Certifications

Java Object-Oriented Programming (Certificate Link) - LinkedIn

Oracle Java Certifications (Certificate Link 1, Certificate Link 2, Certificate Link 3) - LinkedIn

Cloud Computing: Understanding Core Concepts (Certificate Link) - LinkedIn

Java (Certificate Link) - LinkedIn

Microsoft Azure Fundamentals: Describe cloud concepts (Certificate Link) - Microsoft

Github Actions (Certificate Link) - LinkedIn

Achievements

RootCode	**Tech-Triathlon Finalist**
Sep 2023	- Participated and got selected as one of the eight finalist teams.

Extracurricular

- Secretary of the IT Society, Member of the Art Society, Member of the Tamil Literary Association (Good Shepherd Convent Kandy)
- House Games Vice Captain, Senior Prefect (Good Shepherd Convent Kandy)
- Basketball (participated in nationals), Table Tennis (participated in nationals), Field Events, Group Events (Good Shepherd Convent Kandy)
- Corporate Social Responsibility Project (CIMA)

Skills

Programming Technologies- Java, Python, HTML, CSS, JavaScript, XML, Java Swing, Java FX
ML/ AI based libraries, tools, frameworks- TensorFlow, PyTorch, LLMs, HuggingFace, Pandas, NumPy, Scikit-learn, Flask, Matplotlib
Version Control & CI/CD- Git, GitHub, GitHub Actions
Linux & Scripting- Linux, PowerShell, Bash
Cloud & Virtulisation- AWS, Azure, GCP
Web App Servers and Databases- Apache Tomcat, XAMPP, MySQL
Other- jUnit, TestNg, Figma, Photoshop, Illustrator, Hadoop, SPSS