

# MANOJ MANIKANDAN

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## EDUCATION

**The University of Manchester** — Manchester, United Kingdom

Sep 2023 — Jun 2026

*Bachelor of Science (Honours) Computer Science*

**Expected: First-Class Honours**

- **Year 2:** 81%, One of the **Top 10** students in the cohort.
- **Courses:** Software Engineering, Data Structures and Algorithms, System-on-Chip, Quantum Computing, Database Systems, Artificial Intelligence, Machine Learning, Distributed Systems, Processor Micro-architecture, Operating Systems.

## EXPERIENCE

**N8 Computationally Intensive Research**

Jul 2025 — Aug 2025

*Research Software Engineer Intern* [\[Profile Link\]](#)

Manchester, United Kingdom

- Collaborated with **7 academics** to drive digitization initiatives in humanities fields, spearheading **6 projects**.
- Remodeled the codebase of the [American Spoken Corpus](#) site, reducing complexity by **50%**. Implemented a [Dialect Map](#), for visualisation of over **150 transcripts**.
- Extracted and visualized migration patterns from over **70 interview transcripts** of the 'Troubles' victims.
- Devised a [processing tool](#) to pre-process, extract and collate a corpus of around **600 text documents** from Wikipedia XML exports.
- Crafted an [application](#) for analysis and extraction of texts from Polish magazine scans.

**HRBluSky, Pruvity Group**

Apr 2023 — Aug 2023

*Technology Intern*

- Mentored under an ML expert to complete the project, gaining experience in code structuring, documentation, testing and technical writing.
- Evaluated performance of fine-tuned Language Models on templated text generation, streamlining the process of artificial document generation for HR by **65%**.
- Assembled an AI-based assistant to generate around **18 types** of HR documents, resulting in improvement of running basic operations around the workspace by **30%**.

## SKILLS

- **Programming and tools:** Java, Spring Boot, Python, ARMv7 & RISC-V assembly, Verilog, SystemVerilog, Rust, C, C++, Haskell, PHP, ReactJS, JavaScript, SQL, Questa Sim.
- **Technical:** Deep Learning, Convolutional Neural Networks, Recurrent Neural Networks, LSTM, GRU, Language Models, Transformers, Transfer Learning, Vector Space Modelling, FPGA Synthesis.

## PROJECTS

**Interactive Polish Magazine Transcriber** [\[Link\]](#)

Aug 2025

- Engineered an interactive transcriber for Polish magazine scans, based on Google's **tesseract** transcription engine.
- Processed over **215 pages** of Polish Queer magazines and compiled their transcripts.
- Retrieved around **10,000 blocks** of texts, utilised in further analysis and study.

**Wikipedia XML Parser** [\[Link\]](#)

Jul 2025

- Fabricated a command line tool to pre-process and extract text from [Wikipedia XML exports](#).
- Built a corpus of around **600 text documents** from medicine-related articles and talk pages.
- Integrated the tool to a workflow for medical data textual analysis and published the package to the [TestPyPI](#) index.

**PennyWise - Student-friendly Budget Tracker** [\[Link\]](#)

Sep 2023 — May 2024

- Scored **92%** for the project grade, for code quality and presentation.
- Collaborated with **6 students** to develop a budget tracker curated for students, as part of the First-Year Team Project.
- Presented the project to around **100 students**, boosting financial awareness and fitness.

## LEADERSHIP AND AWARDS

**University of Manchester** — Manchester, United Kingdom

Sep 2023 — Jun 2026

- Attained the prestigious Manchester International Excellence Scholarship 2023, presented to only **50 students** out of around **3000 candidates**.
- Contracted and supervised [GreatUniHack](#) 2024, Manchester, with around 200 participants.
- Nominated as a Student Representative for a class of around **400** Computer Science students.
- Peer Mentor (PASS) for **20 underclassmen** to provide academic and well-being support.

**JSS INTERNATIONAL SCHOOL** — Dubai, United Arab Emirates

Jun 2015 — Mar 2023

- Received Proficiency awards for scoring above **90%** overall from Years 9 to 12.
- Co-founder and Tech support at CollegePrep101. Raised college preparedness among students by about **40%**.

## CERTIFICATIONS

**Deep Learning Specialization** [\[Credential Link\]](#)

Aug 2024

- **Courses Completed:** Neural Networks and Deep Learning, Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization, Structuring Machine Learning Projects, Convolutional Neural Networks, Sequence Models.