

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, Privity 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, PostgreSQL, Questa Sim.
- **Technical:** Deep Learning, Convolutional Neural Networks, Recurrent Neural Networks, LSTM, GRU, Language Models, Transformers, Transfer Learning, Vector Space Modelling, FPGA Systhesis.

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.