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%**, **Top 15** in a class of **300**.
- **Courses:** Software Engineering, Data Structures and Algorithms, Artificial Intelligence, Machine Learning, Distributed Systems, Database Systems, Processor Micro-architecture, Operating Systems.

JSS INTERNATIONAL SCHOOL — Dubai, United Arab Emirates   Jun 2015 — Mar 2023
High School Diploma - affiliated with CISCE   **Grade: 97%**

EXPERIENCE

N8 Computationally Intensive Reasearch   Jul 2025 — Aug 2025
Research Software Engineer Intern   Manchester, United Kingdom
Link: https://n8cir.org.uk/themes/internships/internships-2025/manchester/
- Collaborated with **7 academics** to drive digitization initiatives in humanities fields, spearheading **6 projects**.
- Optimized the codebase of https://www.spokencorpus.org, reducing complexity by **50%**.
- Extracted and visualized migration patterns from over **70 interview transcripts**.
- Designed a tool to pre-process, extract and collate a corpus of around **600 raw texts** from Wikipedia XML exports.

HRBluSky, Pruvity Group   Apr 2023 — Aug 2023
Technology Intern
- Analysed performance of fine-tuned Language Models on templated text generation.
- Designed an AI assistant to generate around **18 types** of HR documents.
- Increased the efficiency of running basic operations around the workspace by **30%**.
- Streamlined the process of artificial document generation for HR by **65%**.
- Mentored under a Machine Learning expert to complete the project, gaining experience in code documentation, presentation, testing and technical writing.

PROJECTS

PennyWise - Student-friendly Budget Tracker   Sep 2023 — May 2024
Link: https://github.com/manojmanikandan7/PennyWise
- Scored **92%** for the overall project grade.
- Developed as part of the First-Year Team Project at University of Manchester.
- Presented the project to around **100 students**.
- Collaborated with a team to develop a budget tracker for students.
- Improved awareness of budgeting for around **50 university students**.

Encryption of data using the AES encryption algorithm in Java   Jan 2022 — Mar 2022
Link: https://github.com/manojmanikandan7/Cryptography
- Focused on encrypting data using the Advanced Encryption Standard (AES), a symmetric block cipher.
- Integrated a complementary decryption program which takes in the hashed data and private key to decrypt the data.

LEADERSHIP AND AWARDS

University of Manchester — Manchester, United Kingdom   Sep 2023 — Jun 2026
- Awarded the prestigious Manchester International Excellence Scholarship 2023, presented only to **50 candidates** out of around **3000 candidates**.
- Planned and arranged GreatUniHack 2024, Manchester (greatunihack.com), with around 200 participants.
- Nominated as a Student Representative for a class of around **300** 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, a student-led initiative. Increased college preparedness among students by about **40%**.

CERTIFICATIONS

Deep Learning Specialization   Aug 2024
Credential Link: https://www.coursera.org/account/accomplishments/specialization/LR4ZVQP24B9B
- **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.

SKILLS

- **Programming and tools:** Java, Spring Boot, Python, Rust, C, C++, PHP, ReactJS, JavaScript, MySQL, TypeScript, HTML, CSS, ARMv7 assembly, Verilog, SystemVerilog.
- **Technical:** Deep Learning, Convolutional Neural Networks, Recurrent Neural Networks, LSTMs, Language Models, Transformers, Transfer Learning, Prompt Engineering, Encryption Algorithms.