

MANOJ MANIKANDAN

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EDUCATION

The University of Manchester — Manchester, United Kingdom
BSc (Hons.) Computer Science

Sep 2023 — Jun 2026
Expected: First-Class

- **Year 1:** 84%
- **Courses:** Data Structures and Algorithms, Artificial Intelligence, Machine Learning, Distributed Systems, Database Systems, Data Science.

JSS INTERNATIONAL SCHOOL — Dubai, United Arab Emirates
High School Diploma - affiliated with CISCE

Jun 2015 — Mar 2023
Grade: 96.75%

- ISC - Grade 12: Computer Science (100%), Mathematics (99%), Physics (98%), Chemistry (98%), English (90%).
- Co-founder, CollegePrep101, a student-led initiative.

EXPERIENCE

HRBluSky, Pruvity Group
Technology Intern

Apr 2023 — Aug 2023

- Attained insight on Generative AI, utilising LLMs provided by OpenAI and Meta.
- Designed a working chat-bot to generate around 18 types of HR documents, planned to be incorporated in the system.
- Increased the efficiency of running basic operations around the workspace by 50%.
- Acquired skills in code documentation, presentation, testing and technical writing.
- Mentored under a Machine Learning expert to complete the project.

PROJECTS

LetterBot - AI based Chat-bot to produce HR Documents
Technology Intern, HRBluSky

Apr 2023 — Aug 2023

- An AI-based chat-bot to create HR documents curated to inputs by the user.
- Streamlined the process of artificial document generation by 65%.
- Incorporated the OpenAI API in Python to develop the chat-bot.
- Implemented preprocessing of the commands and formatting the generated documents.
- Produced a custom fine-tuned model based on the GPT-3 from OpenAI.

Encryption of data using the AES encryption algorithm in Java
Project Link: <https://github.com/manojmanikandan7/Cryptography>

Jan 2022 — Mar 2022

- Focused on encrypting data using the Advanced Encryption Standard (AES), a symmetric block cipher.
- Generated encrypted data along with a private key for decryption.
- Integrated a complementary decryption program which takes in the hashed data and private key to decrypt the data.
- Gained elemental understanding of Cryptography and an insight into the challenges faced by cybersecurity professionals.

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 StudentHack 2024 (mcrstudenthack.com), a university-wide hackathon, with around 170 participants.
- Nominated as a Student Representative for a class of around 300 Computer Science students.
- Peer Mentor (PASS) for around 20 underclassmen to provide academic and wellbeing support.

JSS INTERNATIONAL SCHOOL — Dubai, United Arab Emirates

Jun 2015 — Mar 2023

- Received proficiency awards consistently from grades 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, Python, C, C++, JavaScript, ReactJS, TypeScript, Tailwind CSS, HTML, PHP, ARMv7 assembly, Verilog, SystemVerilog, Jupyter, Pandas, NumPy, TensorFlow, Questa CAD toolchain.
- **Technical:** Convolutional Neural Networks, Recurrent Neural Networks, LSTMs, Language Models, Transformers, Deep Learning, Prompt Engineering, Encryption Algorithms, Information Security.