Max Twelftree

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Education

The University of Adelaide Expected Jun 2025

Bachelor of Computer Sciences, Computer Science, GPA: 6/7 *Adelaide, Australia*

- Selected coursework: Algorithm Design, Data Structures, Computer Systems, Options/Futures, Computational Cognitive Science, Object Orientated Programming, Software Engineering, Data Analysis
- Research Interests: Distributed Algorithms, Reinforcement Learning, Systems Programming

Projects

Facial Recognition System | *Python, TensorFlow, Django, REST, Docker* Oct 2023 - Present

- Designed and implemented a facial recognition system in Django, leveraging state-of-the-art deep learning models for accurate identification
- Integrated the system with RESTful APIs to allow seamless data exchange, enabling real-time face verification and identification across platforms

Lexi Learn | *React Native, TypeScript, NeoVim, Kuma UI* Sep 2023

- A mobile application developed with React Native to assist dyslexic students in building foundational vocabulary, focusing on intuitive design and user experience
- Utilized adaptive design principles to ensure the app's accessibility and usability, catering specifically to the needs of dyslexic learners

Painter.IO | *C++, Visual Studio, Jira, SFML* Aug 2023

- Created an open-world paintball game within a group of three, including player functionality like battling, and evolving, with the aim to build your inventory and beat bots built with object orientated programming principles
- Incorporated player feedback during beta-testing phase, leading to crucial game design adjustments

French Fusion | *MATLAB, AppDesigner, GitHub* Jul 2023

- Developed an interactive MATLAB-based application targeting the enhancement of language proficiency for French learners, using MATLAB's AppDesigner for a rich, intuitive learning experience
- Integrated real-time translation capabilities, dynamic vocabulary challenges

Community Involvement

Community Member Sep 2023 – Present

Competitive Programming Club

- Collaborate with peers to develop innovative solutions and strategies to solve complex problems
- Maintain active involvement in community events and initiatives to promote learning and development in competitive programming

Community Member Sep 2023 – Present

AoPS CodeWOOT

- Train, assist and participate in USACO/Olympiad style problems and contests with other students
- Participate in regular discussions and brainstorming sessions to understand and analyse various solutions to problems

Technical Skills

Languages: C, C++, Python, Rust, Perl, Dart (Flutter), Solidity, MATLAB, Java, JavaScript, SQL

Tools: NeoVim, Git, GitHub, React, React Native, TypeScript Docker, TensorFlow, PyCharm, AppDesigner, Numpy