# Kane Alexander

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## Professional Profile

Computer Science and Software Engineering undergraduate student who is currently in his third year of studies. Skilled in effective collaboration with a strong foundation in math, programming logic, and cross-platform coding. Wanting to leverage his skills in an internship or entry-level position.

## Education

**University of Western Australia | Bachelor of Philosophy (Honours)**

Software Engineering and Computer Science

### 2019 – 2022 (Expected Completion Date)

Consistent high distinction results over all completed years of study, with no results lower than a distinction. Completing a Bachelor of Philosophy (Honours) which is a research-oriented four-year degree for high-achieving students consisting of a three-year bachelor and a fourth year of honours. As a requirement for this degree, extracurricular research-orientated units, language units, and research placements were undertaken.

### Key Achievements

- Weighted Average Mark: 83%
- Grade Point Average: 6.63
- Scholarship: UWA Engineering Scholarship $25,000 (2019 - present)

## Experience

**Quantitative Finance (UWA) | Executive Director of Trading**

### January 2021 - Current

Director of 12 quantitative finance traders that create algorithmic trading programs for the open markets. Role incorporates utilizing computer science and engineering backgrounds to design, develop and test trading algorithms. Worked effectively as a team collaborator and leader to produce real actionable results.

### Key Achievements

- Developed a pairs trading algorithm that produced an expected annual return of 17.74% over 2020.
- Participated in weekly executive meetings and organised trading team projects/events.

**University of Western Australia | Research Project**

### 2020 Summer Break

Worked with leading UWA computer science professors to research the effectiveness of genetic algorithms in power grid design. Developed a visual genetic algorithm with obstacle functions and analysed its efficacy. Coded predominantly in Python over the 2020 summer break.

### Key Achievements

- Worked effectively in a software research environment alongside professors and PHD students.

**Greenleaf Pharmacies | Pharmacist Assistant/Technology Assistant**

August 2017 - Current

Trained in the retail management software 'LOTS' to keep accurate stock cards, invoicing, point of sales transactions. Secondary role involved troubleshooting user-end software problems.

## Achievements and Projects

### UWA | Chess Algorithm Finalist

June 2020 – September

Researched and produced a unique chess algorithm to compete in an AI chess tournament against other UWA computer science students. Coded in Java utilising recursion, nodes data structures and visual implementation through Java AWT. Achieved final playoffs against over 80 other agents.

### UWA | 2021 Wood Hackathon Prize Winner

June 2021

Within a 30-hour project time constraint, the team produced realistic financial models for oil rig decommissioning and their possible green alternatives. The problem was approached in a quantitative manner allowed greedy algorithms to find objective results for potential clients.  Achieved 2nd place out of 12 contending groups for a cash prize of $800.

### Tutorial Website Development

January 2021 – Current

Designed and implemented an interactive, locally hosted, website in collaboration with colleagues. Developed functional back and front end to current web standards. The final product was a tutorial website with sign-in validation and statistics pages alongside content. The website was an application of HTML, CSS, JavaScript, and MySQL.

## Studied Languages and Software

- Python
- JavaScript/HTML/CSS
- Java
- C/C++
- MySQL

## References

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