

# ALLEN MA

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## EDUCATION

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### Colby College

Bachelor of Computer Science and Mathematics *GPA: 3.8/4.0*

Waterville, ME, USA

2017 - 2021

### Auckland Grammar School

High School *GPA: 4.0/4.0*

Auckland, New Zealand

2012 - 2016

## WORK EXPERIENCE

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### Eariously

*Intern*

Waterville, ME

January 2019 | February 2019

- Utilized web scraping in Python and performed data analysis on school newsfeed
- The results revealed flaws in the current mode of information delivery and prompted the development of a "daily digest feature".
- Worked with company's two co-founders, 10 fellow interns, and more than 200 students to prioritize software development backlog.

### Colby College Economics Department

*Programmer/Research Assistant*

Colby College

October 2017 | May 2018

- Used Python's Django and oTree framework as well as frontend technologies to make a multiplayer browser-based economics game
- Gained experience in full-stack web development, including rigorous testing and refinement to meet Professor's requirements

### Colby College Computer Science Department

*Teaching Assistant*

Colby College

2018 | Present

- Explained fundamental CS concepts such as modularity, recursion, and scoping to entry-level students
- Helped troubleshoot and debug Java and Python programs

## SKILLS

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Web and Mobile Dev:	Javascript, React, Swift, MongoDB
Python:	Scripting, Django, Flask, Pygame, NumPy
Worked with:	Java, C/C++ (OOP and embedded), R, Haskell
Currently Exploring:	Deep Learning, ML, CNNs, RNNs, PyTorch, Keras and more!
Other skills:	Linux, git, CAD, L <sup>A</sup> T <sub>E</sub> X, unit-testing
Spoken Languages:	English and Mandarin Chinese

## PROJECTS

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### FreeCodeCamp Front-End Projects

<https://codepen.io/allenmaspens>. Projects I made include:

- Tic-tac-toe bot employing the Minimax algorithm which guarantees optimal play
- Simon Game leveraging React and Redux - a fun excursion into a unidirectional data-flow model
- Pomodoro Timer, Wikipedia, Twitch and Weather Viewers and more - gained familiarity with different APIs

### Campus Rides

- Native iOS app written in Swift, leveraging Google's Firebase
- Allows students to request a ride and track the location of the shuttle, greatly improving the current system of having to make ad-hoc calls to the driver
- Under development and constantly being improved