Keith Woo

SOFTWARE ENGINEER
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 (857)-231-3737 | ✉ keithwoo71@gmail.com | 🏠 calmchowder.github.io | calmchowder | keithwoo71

Education

University of Massachusetts Amherst   *May 2019*

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

- Dean's List (Fall 2015, Fall 2016, Spring 2017, Fall 2017, Spring 2018)
- Major GPA: **3.67**
- **Relevant Coursework**: Software Engineering, Artificial Intelligence, Computer Networks, Operating Systems

Experience

Barracuda Networks   *Chelmsford, MA*

SOFTWARE ENGINEER INTERN   *May 2018 - Aug. 2018*

- Fixed 500+ bugs in a 5+ year old code base that is primarily used for back-end testing
- Cleaned up 4000+ code smells in the same code base to increase readability and functionality
- Learned to use Docker and XDebug to be able to locally host the back-end website and database for testing
- Learned to utilize Swagger and Postman to update and test API definitions
- Added documentation and PHPDoc to many classes and methods with class diagrams

University of Massachusetts Amherst   *Amherst, MA*

UNDERGRADUATE COURSE ASSISTANT   *Jan. 2018 - May 2018*

- Graded labs and exams for Data Structures/Algorithms course
- Coordinated with graduate TAs to determine the grading rubric on exams
- Checked Piazza daily to answer questions and concerns from students
- Worked with 3 other undergraduate course assistants to divide up work that was assigned weekly

Projects

Spire Schedule Builder   *Nov. 2017*

BACK-END DEVELOPER - HACKUMASS V

- Used Python and Selenium to pull and store data from Spire and RateMyProfessors
- Developed the base idea for an algorithm that schedules classes based on time conflicts and availability
- Created a webapp allowing users to input classes via a drop down menu that is passed to our web scraper to get class information
- Collaborated with a team of 4 people

Slime Shooter   *2017*

DEVELOPER

- Created a top down survival game involving slimes in Unity
- Coded basic follow AI with push back mechanics on enemies
- Used Unity extension 'TileMap' to create a tiled map using a wood tile sprite created in Aseprite
- Drew sprites and animations in Aseprite

Pong (Clone)   *2017*

DEVELOPER

- Created a near replica of 2D Pong from scratch in Unity
- Drew sprites and effects in Aseprite
- Generated music and sound effects using Bosca Ceoil

Skills

Programming Experience: Java, C#, C++, C, Git, HTML, CSS, PHP, Python, MATLAB, LaTeX

Computer Programs: Unity Engine, Eclipse, Visual Studios, Docker, VMWare, Microsoft Office

Languages: Cantonese (Moderate), Mandarin (Conversational)