
WORK EXPERIENCE

Jr. Software Engineer	Optera Group LLC	March 2015 – Present
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- Developed UI and API calls for a sales management tool application.
- Created scripts for object interactions, optimized high polygon animated models, and designed the game logic of multiple interactive augmented reality applications.
- Architected and built necessary database and queries for data visualization software.

Teaching Assistant	University of Colorado - Boulder	January – May 2014
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- Taught students how to use multiple programming tools such as Excel, MATLAB, and Visual Basic.
- Assisted with grading and helping students with course related materials.
- Led weekly lab sessions.

President of IT Club	High School	January – December 2009
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- Created, managed, and monitored tasks and activities of more than 150 members.
- Organized and fundraised for after-school programming courses that exposed club members to new programming tools.

EDUCATION

Boulder, CO	University of Colorado - Boulder	January 2012 – May 2015
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- Graduated with Bachelor of Science in Electrical and Computer Engineering and minor in Computer Science.

RELEVANT EXPERIENCE

Projects

- **Autonomous Flying UAV Project** (2014-2015) – Developed mapping and pathing algorithm for an Autonomous Flying Quadcopter for senior design project using Ubuntu Precise, ROS, C#, Unity3D, and Python.
- **Game Design and Programming Course** (2014) – Analyzed multiple games, which introduced many concepts of game architectures, networking, and designs. Used learned concepts to design and develop multiple games using Unity3D and C#.
- **Ragnarok Online and Maple Story Private Server** (2005-2012) – Designed, developed, and debugged game mechanics, content and levels for multiple MMORPG private servers which held more than 200 players. Created using C++, MySQL, and Java.

AWARDS

- **Certificate of Academic Honors Summa Cum Laude:** Obtained GPA higher than 3.90.
- **Certificate of Academic Honors Magna Cum Laude:** Obtained GPA higher than 3.75.
- **High School Academic Excellence Award:** Graduated with straight A's (3.93 CGPA) (with A+ in Math, Physics and History).

Languages and Tools

- Software languages: C#; C++; Python; Java; C
- Operating Systems: Windows; Ubuntu; Robot Operating System (ROS)
- Relevant Coursework: Video Game Design and Production; Algorithms; Linear Algebra; Linear Systems; Data Structure; Artificial Intelligence
- Other: Unity3D; Tableau; SVN; GitHub; Eclipse IDE; MATLAB; Microsoft Office applications
- Languages: Fluent in Malay