Erick Ortiz

ortiz.erick.67@gmail.com Los Angeles, California (626)383-8936 linkedIn.com/in/erickortiz67 eortiz.net Education California State University, Long Beach August 2017 - December 2018 Master of Science, Computer Science GPA - **3.7** California State University, Bakersfield August 2015 – June 2017 Undergraduate Coursework, Computer Science GPA - **3.5** California State University, Fullerton August 2008 - May 2013 Bachelor of Arts, History GPA - **3.3** Projects For a more detailed description of my projects, or to check out the source code, please visit (eortiz.net/projects.html). **Geometric Meltdown** January 2017 – Present Multiplayer Video Game State Design Pattern **Computer Graphics** Portable Game Engine • Command Design Pattern Linux/Windows • Sound 00 Design • Iterator Design Patten Multi-threaded ▶ Best Video Game (2017), CSUB – Department of Computer Science **Portable Search Engine** August 2018 - December 2018 **Boolean Query Parser** Proximity Query **Naive Bayes** Ranked Retrieval • Variable Byte Encoding Adaptable via plugins **Rocchio Classification** Disk Positional Index Sound 00 Design Relevant Experience **Backend Software Developer** Crown Sterling February 2019 - Present I work closely with an interdisciplinary team of software engineers, mathematicians, and physicists. I help to develop and design a new post-quantum cryptographic system. • I architect the object-oriented design of the new system. I abstract modules in our system and impose appropriate design patterns. I develop and maintain the documentation for the new system. I interview stakeholders to extract functional and non-functional requirements. I work with encoding, compression, serialization, multithreading paradigms, and optimization algorithms. I conduct research to implement cutting edge technologies. June 2018 - December 2018 **Software Developer Internship** *International Fleet Management* I developed a fleet management system prototype that detected the damage to specific vehicles. The code base was developed in C++ and OpenCV. **Head Tutor** *Kegley Center for Student Success* January 2016 - June 2017 • I tutored Introduction to Programming, Data Structures, Object Oriented Programming, Algorithms, Assembly Programming, and more. Technologies & Software Unix/Linux Git **Balsamiq Mockups** Windows and OSX **SFML** STL (C++) **GLFW** Wireshark Visual Studio OpenGL GNS3 Android Studio OpenCV **NetBeans** Cisco Networking Concepts 00AD / 00P **Design Patterns** Algorithms Refactoring / Code Smells UML Networking (TCP/IP)

Leadership

Problem Decomposition

Public Speaking

Strong Interpersonal Skills

Skills

Communication

Self-motivated