

MATTHEW ZHAN

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OBJECTIVE | Full-time position as a Software Engineer

SKILLS & ABILITIES | Proficient in Java with over seven years of experience
Significant experience with C++ and the Qt Framework
Specialist in 2D graphics, GUI, and UX programming
Familiar with C, ARM embedded systems, Assembly language, and MySQL

EXPERIENCE | **SOFTWARE ENGINEERING INTERN | POLYCOM**
JULY 2015 – SEPTEMBER 2015 | AUSTIN, TX

- Developed a hierarchical state machine editor with an intuitive GUI and a code exporter, accelerating the automation of software testing for all product lines
- Rapidly evolved the program with impactful updates by adapting requirements from consultations and meetings with end users
- Independently developed novel features that significantly improved utility, accessibility, and visual clarity

SOFTWARE ENGINEERING INTERN | NSF SPATIOTEMPORAL INNOVATION CENTER
JUNE 2014 – AUGUST 2014 | GEORGE MASON UNIVERSITY, FAIRFAX, VA

- Simplified analysis of large, cloud-stored geodata files by developing middleware to read from and quickly render geomaps using interpolation algorithms
- Assessed behavior patterns of app-users using GPS data to profile their movement
- Accelerated development progress by regularly exchanging critique in meetings

TUTOR | SANGER LEARNING CENTER
AUGUST 2013 – MAY 2014 | AUSTIN, TX

- Mentored EE students on how to effectively approach problems and learn concepts
- Reduced challenging problems as a team of tutors and students, collaborating on thorough and simple problem solving strategies

EDUCATION | **THE UNIVERSITY OF TEXAS AT AUSTIN**
BACHELOR OF SCIENCE, ELECTRICAL ENGINEERING, MAY 2016

- GPA: 3.56
- Member of UT Engineering Honors Program
- Recipient of Charles C. and Lula May Wilson Endowed Scholarship Fund, 2012-2013

Related Courses

Algorithms, Software Design II, Communications, Real-time Operating Systems, Concurrent and Distributed Systems, Computer Architecture, Discrete Math, Digital Logic Design, Differential Equations, Linear Systems and Signals, Probability

ACHIEVEMENTS | VISUAL STATECHART EDITOR, open source editor for hierarchical state machines

POLYCOM TECH TALK, company-wide presentation to orient users to Visual Statechart Editor

PUBLICATION CO-AUTHOR, Enabling Big Geoscience Data Analytics with a Cloud-Based, MapReduce-Enabled and Service-Oriented Workflow Framework

KEPLER ORBIT, iPad app, physics sandbox with solar system simulator