

Melissa Olson

San Diego, CA

PROFESSIONAL EXPERIENCE

Qualcomm

Senior Engineer, Software

April 2015 – Present

Engineer, Software

Feb 2012 – April 2015

- Enhanced a PHP website and SQL Server database for managing and scheduling test plans, which supports the testing activities of 100+ engineers within my team
- Collaborated across teams to develop an integrated automation framework and web application for queueing and executing test plans and reporting test results using Django, RabbitMQ, and PostgreSQL
- Created Android test applications, automation, and test plans for validating computer vision algorithms
- Designed an end-to-end continuous integration system using Perl that automatically builds, validates, and reports on code changes in computer vision APIs

Interim Engineering Intern

May 2010 – Aug 2010

May 2011 – Aug 2011

- Created a Perl script to parse the properties of video/audio clips and store them in a MySQL database
- Developed a PHP website to query the database for test clips based on their properties
- Implemented a Perl script to automatically generate test suites for validating video playback functionality

SKILLS

- **Languages** – Python/Django, Java, Perl, PHP, JavaScript, HTML, AJAX, C/C++, MATLAB, Haskell, Lisp
- **Platforms** – Android, Windows, UNIX/Linux, MacOS
- **Database Systems** – MySQL, Microsoft SQL Server, PostgreSQL
- **Design Concepts** – Object-Oriented Programming
- **Tools** – Jira, Git, Perforce
- **Leadership** – Training and Mentoring New Hires and Interns

EDUCATION

The University of Texas at Austin

Aug 2008 – Dec 2011

Bachelor of Science in Computer Science, Summa Cum Laude

- Cumulative GPA: 3.95, University Honors (5 semesters)

ACADEMIC PREPARATION

Operating Systems; Computer Graphics; Automata Theory; Algorithms and Data Structures; Autonomous Vehicles in Traffic; Programming Languages; Intro to Wireless Networks; Digital Logic Design; Analysis of Programs

AWARDS

1st place in the QTech 2014 Software category for co-authoring *Snapdragon Computer Vision Test Automation*

ACADEMIC RESEARCH

UTCS Freshman Research Initiative, Autonomous Vehicles

Jan 2009 – Dec 2009

- Implemented an algorithm for probabilistic obstacle detection using Lidar sensors
- Read and wrote technical research papers and presented research findings