

CARLYN-ANN LEE

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TECHNICAL STRENGTHS

C/C++, C#, Java, Python, Javascript, Matlab, Visual Basic, Excel, SQL&noSQL, OpenCV, OpenGL

EXPERIENCE

Jet Propulsion Laboratory, California Institute of Technology

August 2012 - present

Applications Software Engineer

Pasadena, CA

- Full web stack development for deep space telecom and mission planning tools.
- REST APIs using nodejs, java, mongo and integration with mission planning tools. Developed GUIs to consume REST APIs with Liferay and Drupal. Visualization with d3 and three.js.
- Improved bandwidth requirements for Deep Space Network simulations using stochastic optimization.

Spectral Imaging Laboratory

November 2011 - present

Consultant

Pasadena, CA

- Improved resolution of raytracing-based simulations of compound eyes. Matlab prototype, hardware implementation using openCV.
- Mathematical modeling of visual acuity for multiple apertures on curved surface. Applied neural networks to improve angular resolution of a point light source.

California State University, Fullerton

December 2009 - Aug 2012

Research Assistant & Intern

Fullerton, CA

- Improved cancer detection in DNA microarray data with feature extraction techniques using Matlab.
- Binding site discovery in heat-shock proteins with C/C++ implementation of self-organizing maps.
- Developed scheduling tool for library resources using .NET framework. C# student web application, VB.NET admin configuration tool.
- Database design and implementation using SQL Server and access control using stored procedures.

VOLUNTEER & PROFESSIONAL AFFILIATIONS

June 2009 - present Mentor & participant in robotics competitions to contribute and advance learning of C/C++ with Lego Mindstorm, VEX, R-pi, Arduino.

2015 Interplanetary Small Satellite Conference Organizing Committee.

2010-2012 Vice-President of Association for Computing Machinery, CSU Fullerton.

AWARDS & HONORS

2013 1st place Biotech Track, 15th Annual IEEE Biomedical Engineering Biotech Contest.

2012 Anita Borg scholarship recipient, CSU Program for Education & Research in Biotechnology Student Travel Grant, Orange County Engineering Council Outstanding Engineering Student Award.

EDUCATION

California State University, Fullerton

M.S. in Computer Science

August 2012

B.S. in Computer Science, Minor in Mathematics

July 2011