

## Overview

Avid rock climber with a passion for programming in Machine Learning applications: Image Recognition, NLU, Computer Vision, Autonomous Navigation Systems and other Deep Learning topics. Coming from 2 years of industry experience with practical application of Facial Recognition in EMPI Matching Algorithms I want to continue pursuing similar challenges.

## Education

### Masters of Science: UCLA

Graduated June 2015

Major: **Aerospace Engineering (3.68 GPA)**

Focus: **Systems and Control**

### Bachelors of Science: UCLA

Graduated June 2014

Major: **Mechanical Engineering (3.89 GPA, Summa Cum Laude)**

Technical Breadth: **Computer Science**

## Work Experience

### Solutions Architect: NextGate Solutions

March 2016 – March 2018

Worked with Java, Java EE, and internet technologies (AngularJS) to create and maintain Java and Web applications for customers and for NextGate. Notable projects include: EMPI Implementation and Integration for Ascension Health, EMPI Implementation and Data Integration for Northern Territories Australia; and Facial Recognition for identification and patient matching.

### SolidWorks 2014 Beta Support: Dassault Systemès

Summer 2013

Direct line of support with customers for the SolidWorks 2014 Beta at the Woodland Hills office in Los Angeles.

### Teaching Assistant: UCLA

Fall 2014 – Winter 2016

Administrated labs and discussions for both the Mechanical Engineering and Life Science departments. Awarded "Certificate of Distinction in Teaching" by the UCLA Life Sciences Division.

### Rockwall Supervisor: UCLA Recreation

Spring 2013 – Spring 2014

## Notable Projects

- Facial Recognition for EMPI Matching Algorithms – Python, Docker, Java, ZeroMQ, OpenFace, Torch and Lua
- Autonomous collection and deployment robot – LabView, SolidWorks
- 3D sandbox game – JavaScript and WebGL
- Finite element solver for membranes under plane stress condition – MATLAB
- Finite volume solver for 2D flow – MATLAB

## Programming Languages and Technologies

- Python, Java, C++, MATLAB, R, JavaScript, LabView, Lisp, SQL, Ruby, bash, sed
- Docker, WebGL, AngularJS, ReactJS, Node, OSGi, Ruby on Rails, Apache Camel, Apache Karaf

## References

- Gevik Nalbandian, *VP of Software Engineering at NextGate* – [zgev@yahoo.com](mailto:zgev@yahoo.com)
- Dan Cidon, *CTO at NextGate* – [dan.cidon@nextgate.com](mailto:dan.cidon@nextgate.com)
- Tony Tsao, *Senior Manager at Dassault Systèmes Solidworks* – [tonytsao@gmail.com](mailto:tonytsao@gmail.com)
- Will Conley, *Math Professor at UCLA* – [wconley@ucla.edu](mailto:wconley@ucla.edu)