



DAVID LIAO

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EDUCATION

Bergen County Academies

Academy for Technology and Computer Science (2010-2014)

New Jersey Governor's School

Governor's School in Engineering and Technology (2013)

University of Pennsylvania

BSE Computer Science (Exp. May 2017), MSE Computer Science (Exp. May 2018)

Major GPA: 3.8/4.0 Overall GPA: 3.7/4.0

WORK EXPERIENCE

Flight Software Engineer

May 2017-Present

SpaceX

Helping send rockets into space.

Software Engineer Contractor

October 2016-Present

Twitch

Contracting backend engineer for the Search and Discovery team.

Software Engineer

May 2016 – August 2016

Twitch

Backend engineer for Search and Discovery team. Built and deployed services on AWS using Docker and Elastic Beanstalk.

Software Engineer

June 2015 – August 2015

athenahealth

Developed an algorithm to extract OCR'd medical data from scanned fax documents (95% automation rate) using ensemble machine learning techniques.

Technology Analyst

July 2014 – August 2014

Morgan Stanley

Created and deployed an in-house project tracking framework used by project managers across the EC department

Computational Physics Engineer

July 2013 – June 2014

Princeton Plasma Physics Laboratories

Built a web app that allows students from around the world to interact in real-time with plasma generating apparatus.

NOTABLE PROJECTS

Obstruction Free Photography

Built a computer vision pipeline from scratch in CUDA that extracts the background from an image with an occluding layer.

GPU Programming

Synced Video Player

Designed a custom video player in React that let's you draw on the video through a hybridized canvas/video element. Architected a scalable pub-sub backend that syncs connected clientside video players.

Full-stack development

Dota 2 Trivia Bot

Developed a slack bot that serves trivia questions and keeps track of scores. Questions are scraped from the wikipedia pages, processed using NLP techniques, and served through a RESTful service.

Slack Bot

HONORS & AWARDS

September 2016

PennApps

Top 30 Hacks

January 2016

AT&T Hackathon

Best WhitePages Hack

March 2014

hackBCA

Best Live Hack

February 2014

PennApps

Best Bloomberg Hack

October 2013

HackRU

2nd Overall Best Hack

INTERESTS

Distributed Systems

Building scalable backend services that handle thousands of concurrent users

Machine Learning, NLP, and Computer Vision

Constructing models and pipelines for large volume datasets

AR/VR

Developing content and experiences on the AR/VR platform

GPU Programming

Hacking high performant pipelines for computationally intensive tasks. Plays very nicely with all of the above.

TECHNOLOGIES & LANGUAGES

CUDA • React • Node.js • Unix • Git • SQL • AWS • Docker
Go • Javascript • Python • Haskell • C++/C