

## Education

- **The University of California, Los Angeles** Los Angeles, CA  
Sept 2015 - present  
*B.S. Computer Science, Class of 2019*
  - GPA: 3.90 (Dean's Honors List)
  - Coursework: Compiler, AI, OS, Network, Algorithm, Automata Theory, Programming Languages, Computer Architecture, Linux Software, Graphics;

## Experience

- **Software Developer Intern at Microsoft OS Security** Redmond, WA | Summer 2018
  - Prototyped a smart whitelisting policy recommendation cloud app for enterprises in C#.
  - Analyzed telemetry data from 100k+ users and came up with metrics for measuring policy effectiveness.
- **Software Developer Intern at Symantec** Los Angeles | Summer 2017
  - Ported legacy virus scanner engine to the new safe execution environment in C++.
  - Designed an automatic code converter using tokenizer to help the porting effort in Python.

## Research & Projects

- **LoopInvGen - PL Research under Prof. Todd Millstein** | OCaml Fall 2017 - Present
  - Worked on LoopInvGen, the world's fastest Loop Invariant Generation Tool for Program Verification.
  - Write 500+ lines of OCaml to add powerful type and quantifier semantics to the synthesis engine.
- **15-puzzle.com - A Sliding Puzzle Game and Solver on the Web** | C++/TypeScript Winter 2018
  - Designed the first-ever online 15-puzzle player with a modern UI and an optimal solver.
  - Implemented an optimized A-star searching algorithm compiled to WASM to solve any given state.
  - Received positive feedback from dozens of users.
- **Hymnia - Face Recognition Music App** | Frontend - ReactNative May 2017
  - Created music recommendation algorithm based on emotions detected from selfies.
  - Built a music player with React that stream songs from youtube.

## Contests and Awards

- **Competitive Programming**
  - Placed 4 / 105 at 2017 ACM-ICPC Southern California Regionals
  - Placed 4 / 94 at 2016 ACM-ICPC Southern California Regionals
  - Bloomberg Codecon 2016 Global Finalist (Placed third at Regionals)

## Activities

- **ICPC President at UCLA ACM** Jan 2018 - Present
  - Organize weekly trainings for ICPC Regional Competition; teach topics on various algorithms; write problems and server for school-wide coding challenge.

## Skill Set

- Good At: C/C++, Javascript, Python, C#, OCaml
- Familiar With: Java, Scheme, PHP, Prolog