

## Education

University of Texas at Dallas 2013-2017

- BS Computer Science 2017

## Experience

Software Engineering internship at Apcon 2016-2017

- Finding and fixing bugs, performing static code analysis
- Migrated software to cloud and improved Linux installation
- Developed server software using Adobe Flex and C++

Junior Software Engineer at IXIA/Keysight 2018-2020

- Developed C/C++ software to extract data from network packets for visualization
- QA tested regression tests using Robot and in-house traffic generator
- Set up Docker/Kubernetes environment to run our product virtually

## Projects

Fencing Tournament Organizer Web Service 2018

- Developed in Python and Flask to run fencing tournaments
- Stores results in a database to allow for live viewing of results
- Used by the Southwest Intercollegiate Fencing Association
- ([github.com/rkblake/FencingTournamentTool](https://github.com/rkblake/FencingTournamentTool))

Flat-Panel Airborne Radio Control 2017

- Senior CS Semester project, team of 5
- Worked with Sponsor, Rockwell Collins to develop software for radio control and maintenance

Solar System Simulator 2017

- Simulates orbital mechanics using Newtonian physics
- Uses OpenGL and SDL2 to display planets and stars
- ([github.com/rkblake/SolarSim/](https://github.com/rkblake/SolarSim/))

ECS Maze Solving Toy Car 2014

- Freshman Engineering semester project, team of 5
- Uses Raspberry Pi, ultrasonic sensors and a Python script to navigate a maze

RTS AI Project 2010-2012

- Worked in 2 person team on Real-Time Strategy playing AI
- Created an AI that manages units and resources
- Dortmund University of Technology's Computational Intelligence and Games (CIG) 2011 Starcraft AI competitor ([ls11-www.cs.tu-dortmund.de/rtts-competition/starcraft-cig2011](http://ls11-www.cs.tu-dortmund.de/rtts-competition/starcraft-cig2011))

## Skills

- Languages: C/C++, Python, Javascript, SQL, Erlang ...
- Frameworks and Libraries: Flask, OpenGL, SDL2, Node.js, Vue.js ...
- Other Skills: git, gdb, Jenkins, Mantis, Linux, AWS, and Machine learning

## Miscellaneous

- Fluent in English, basic understanding of French and Korean
- 10 Years competitive Fencing, previous captain of the UTD Fencing Club
- Competed in Cyber security competition with UTD's Computer Security Group
- Ask me ([github.com/rkblake](https://github.com/rkblake)) about my other projects!