

# Sooham Rafiz

Avionics Engineer. Web Developer. Research Assistant.

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🔗 github.com/sooham

## EXPERIENCE

### Avionics Engineer

**University of Toronto Aerospace Team, Rocketry Division**

📅 Sep 2016 📍 Toronto, Ontario

UTAT's rocketry division builds high-altitude sounding rockets.

- Using Arduino microcontroller and ICs, I developed hardware and software for recording flight-critical sensor measurements.

### Web Development Intern

**Careerleaf Inc.**

📅 July 2016 - Sep 2016 📍 Toronto, Ontario

Careerleaf simplifies online hiring for jobseekers and employers alike.

- Developed a job management module using AngularJS. Currently used in production.
- Improved site reliability by writing automated unit tests for company's frontend and backend.
- Improved resume scraper efficiency from 31% to 78% on representative sample.
- Liaised with development team and product manager to fulfill client requests regarding UI, backend and job analytics. i.e UI customization, reducing site downtime.
- Worked on a development team using SCRUM.

### Undergraduate Research Assistant (CSC299)

**University of Toronto**

📅 June 2015 - Aug 2015 📍 Toronto, Ontario

Explored Video Games as a medium for teaching Computer Science with Dr. Steve Engels.

- Created Unity3d games focused on sequential thinking and Data Structures.
- Created an 'Indiana Jones'-esque game teaching Bash without any libraries (only Applescript and Bash).
- Demonstrated Unity3d games can be of pedagogical value towards Computer Science education whilst being fun.

## EDUCATION

### Computer Science Honors B.Sc.

**University of Toronto**

📅 Sep 2014 - Apr 2018

GPA

3.54 / 4.00

## SKILLS

Languages: C / C++, Python, Javascript, Java, HTML5, CSS3.

Web: MEAN, React, jQuery and other JS libraries. AWS. Django. Webpack. REST APIs. OAuth.

AI: Neural Networks. Clustering. Object Recognition. Tensorflow, numpy, scipy and openCV.

Quality Assurance: Unit Testing, User Testing, Code Reviewing.

Other: Data Structures. Git, SSH, Linux.

## PROJECTS

### Inpainting (Open Source)

Open-sourced only known implementation of Criminisi et al's inpainting algorithm, used to remove regions of an image.

### MapReduce Engine

A simple Map Reduce engine in C demonstrating MIMD parallel computing across processes.

### sooham.com (Blog)

My own blog without any static site generators. Uses React.js, Express.js, Webpack and Heroku.

### GraphFlow (3D game)

A 3D Unity game exploring sequential thinking and Data Structures. Built with C# and JS.

### Browser Engine

Implemented a toy Browser engine for the Altera DE1 FPGA in Verilog.

- Awarded perfect score as final project.