

# Benjamin Cai

Hoboken, NJ, 07030

201-221-6187

benjamincai@gmail.com

**LinkedIn:** [www.linkedin.com/in/benjamin-cai](http://www.linkedin.com/in/benjamin-cai)

**GitHub:** [github.com/BenjiTheC](https://github.com/BenjiTheC)

**AngleList:** <https://angel.co/benjamin-cai-1>

## Objective

To obtain a part time position in the field of Computer Science with an emphasis on Software Engineering or web application development.

## Education

### Stevens Institute of Technology

*Master of Science in Software Engineering*

GPA: 4.0 / 4.0

Graduation: May 2020

### Wuhan University

*Bachelor of Science in Internet of Things*

GPA: 3.0 / 4.0

Graduation: Jun 2017

## Skills

**Technology:** JavaScript (proficient), Python (proficient), SQL, C, React Native, NodeJS, ExpressJs, HTML, CSS, Click, Pandas

**Software Tools:** Git, Vim, VS Code, XCode, DataGrip

## Professional Experience

### Mobile Development - frontend, Amazon.com Services, Inc.

*Software Development Engineer Intern*

Austin, TX

May - Aug 2019

- Using React Native developed a feature for Amazon Mobile app. This project is delivered to customers as an important part of the major project of my team.
- Performed best practice dealing with ambiguity in both programming and UX design, received positive feedback in design review.
- Showed a strong ownership of the project. Proactively refactored the legacy code base for improvement in maintainability and readability. Fix the unit test failure not impacting my project.
- Obtained the offer returning as a full time SDE.

### Academic Research Project, Stevens Institute of Technology.

*Research Assistant*

Hoboken, NJ

Nov 2018 - May 2019

- Improve work efficiency by 85% through utilizing Python and SQLite to identify error prone newly admitted students' information from campus databases.
- Using Python package Click to build a command line interface for the program above.
- Use JavaScript, HTML, CSS to design and maintain the online DuckCard office website and eAccount transaction website.
- Serve newly incoming students during the orientation and daily work.
- Responsible for interviewing and hiring students for the office.

### Stevens DuckCard Office, Stevens Institute of Technology.

*Project Manager*

Hoboken, NJ

Oct 2018 - May 2019

- Improve work efficiency by 85% through utilizing Python and SQLite to identify error prone newly admitted students' information from campus databases.
- Using Python package Click to build a Command Line Interface for the program above.
- Use JavaScript, HTML, CSS to design and maintain the online DuckCard office website and eAccount transaction website.
- Serve newly incoming students during the orientation and daily work.
- Responsible for interviewing and hiring students for the office.

## Academic Activities

### Optimization of Indoor Wi-Fi Location Algorithm, Wuhan University.

Wuhan, China

Jan - Jul 2017

- Propose an optimized version of algorithm for traditional triangle location algorithm. Theoretically capable to improve the accuracy by 15%.
- Develop a set of Wi-Fi nodes using C and ESP8266 Wi-Fi module to simulate the realistic application scenario.
- Develop an FTP server using C# to collect data sent from Wi-Fi nodes and implement, verify the algorithm mentioned above. The optimization is able to improve 12% of accuracy and 20% of stability for specific application scenario.