

# James Castro

Software Engineer

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## Education

### **B.S. in Computer Science**

Stony Brook University

August 2016 - May 2020

#### Relevant Courses:

- ❖ Software Engineering
- ❖ Database Systems
- ❖ Analysis of Algorithms
- ❖ Data Structures
- ❖ Computer Networking
- ❖ Computer Security
- ❖ Offensive Security
- ❖ System Fundamentals I
- ❖ System Fundamentals II

Extra Curriculars: Member of Stony Brook Computing Society & Women in Computer Science organizations

## Skills

- ❖ **Languages:** Python, Java, JavaScript, TypeScript, C, C#, Perl, HTML5, CSS3, Shell Scripting, SQL
- ❖ **Technologies:** NumPy, Pandas, SciPy, SciKit Learn, Node.js, React.js, Express.js, Bootstrap, Axios, MySQL, MongoDB, JDBC, Git/Github, ZeroMQ, Linux/Unix, Windows, VSCode/Codium, Vim

## Projects

### **C4me**

- ❖ Created a social media platform which connects students with the college of their dreams by giving statistical reports based on previous admissions.
- ❖ Delegated tasks within a four person team and determined optimal technology stack, resulting in timely generation of product deliverables.
- ❖ Implemented dynamic frontend web application in React.js which consumed a REST api using Axios.

### **Distributed TypoSquatting Detector**

- ❖ Built a web dashboard that checks permutations of a given URL's spelling for potentially malicious websites trying to leech traffic and trick users.
- ❖ Automated browser function for reporting new websites & debugged custom messenger queue by fixing erroneous TCP socket connections.
- ❖ Designed the product roadmap and distributed engineering tasks to a four person team resulting in rapid delivery and a high mark on the project.

### **Covert Command & Control Channel**

- ❖ Produced a proof of concept private command and control channel, allowing for attackers to control a client machine and extract data through messages hidden in images over Twitter.
- ❖ Implemented dynamic message retrieval & response to match user's web traffic patterns to minimize probability of detection.
- ❖ Pivoted overall design when new user requirements became apparent without missing any respective project deadlines.

## Work Experience

### **Lead File Clerk**

Babylon Honda/The New Babylon Honda

June 2015- March 2020

- ❖ Filed, retrieved & purged customer service repair orders, car deals, parts orders, etc.
- ❖ Delegated work from boss to coworkers & worked as a team.