

James Castro

Software Engineer

Email: jamescastro98@gmail.com
Github: <https://github.com/jamescastro98>
Website: <https://jamescastro.tech>
Phone: (631)-612-0491

Education

B.S. in Computer Science

Stony Brook University

August 2016 - May 2020

Relevant Courses:

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|--------------------------|-------------------------------|--------------------------|
| ❖ Software Engineering | ❖ Object Oriented Programming | ❖ Offensive Security |
| ❖ Database Systems | ❖ Computer Networking | ❖ System Fundamentals I |
| ❖ Analysis of Algorithms | ❖ Computer Security | ❖ System Fundamentals II |
| ❖ Data Structures | | ❖ Stats for Data Science |

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

Skills

- ❖ **Languages:** Python, Java, JavaScript, TypeScript, C, C#, HTML5, CSS3, Shell Scripting, SQL
- ❖ **Technologies:** NumPy, Selenium, SciPy, SciKit Learn, Node.js, React.js, Vue.js, Express.js, Bootstrap, Axios, MySQL, JDBC, AWS Services (EC2, DynamoDB, Lambda), Git, Linux/Unix, Windows, VSCode, Vim
- ❖ **Misc:** Problem Solving, Code Debugging, Communication Skills, Writing Skills, Spanish Fluency

Projects

C4me

- ❖ Created a social media platform using Node.js 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 using Django 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.

Mipzmazon

- ❖ Created a Java based ecommerce system that connected to a locally hosted SQL database that enabled users to checkout specific products and input information.
- ❖ Created spec for database schema & implemented it for optimal query time & ACID transactions, managing it through MySQL Workbench.

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.