

# Tito Maresca

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## EDUCATION

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### Cornell University

Ithaca, NY

*Bachelor of Science: Computer Science; Minor in Philosophy — 4.04 GPA*

*August 2019 – May 2023*

*Relevant Coursework:* Algorithms, Data Structures & Functional Programming, Software Testing, Runtime Verification

### FD Roosevelt High School

Hyde Park, NY

*High School Diploma, Valedictorian — 101 GPA*

*August 2015 – June 2019*

## EMPLOYMENT

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### Verisk

Jersey City, NJ

*Software Development Intern*

*May 2022 – August 2022*

- Developed features for a web application designed to assist insurance adjusters in making accurate settlements
- Engineered over a full stack with Angular, .Net, and SQL for the automatic processing of user and settlement data
- Created workflows with AWS SDK for .NET, S3, SQS, and Lambda as part of a transition to serverless architecture
- Exposure to DevOps deployment with Octopus and Bamboo for the deployment of said features

### Cornell University

Ithaca, NY

*Teaching Assistant*

*December 2020 – July 2021*

- Lead a weekly lab and discussion section for CS3410 Systems Programming, a class with hundreds of students
- Prepared course materials including lecture videos and discussion presentations on topics such as RISC Assembly and C
- Held weekly office hours for students needing one-on-one assistance, where queues often reached over 50 students
- Facilitated Cornell's CURIE summer program and Cornell's CSMORE program for computer science sophomores

### PenLink

Lincoln, NE

*Software Development Intern*

*May 2020 – August 2020*

- Developed front-end features in Typescript with Vue.js in a web application for the analysis of telecommunication data
- Repaired and maintained back-end infrastructure in .NET as the only developer on my team dedicated to bug-fixes
- Exposure to the DevOps deployments of web applications with AWS Elastic Beanstalk
- Participated in an Agile software development environment with Azure DevOps and a scrum framework

## RESEARCH

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### Runtime Verification

Software Engineering Lab at Cornell

*Undergraduate Research Assistant to Professor Owolabi Legunsen*

*August 2021 – Present*

- Researched Deductive Specification Inference, a process of automatically verifying formal program specifications
- Manually analyzed the result of enforcing hundreds of mined specifications on widely used open-source Java projects
- Wrote scripts in BASH and Python to perform experiments and process data regarding the aforementioned analysis
- Developed plugins for the Maven build system for Java to perform runtime verification experiments
- Co-authored a paper on the subject of automatic specification verification, to be submitted to ICSE 2023

### Foveated Rendering

Computer Graphics Department at Cornell

*Undergraduate Research Assistant to Professor Donald Greenberg*

*January 2020 – April 2020*

- Researched foveated rendering, which reduces the graphical quality of VR headsets in the user's peripheral vision
- Created virtual reality testing environments to track subject's eye movement in Unreal Engine and C#
- Wrote scripts in Python to process experimental data generated from eye-trackers and VR headsets

## TECHNICAL SKILLS

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**Languages:** Python, Java, C#, Java/TypeScript, OCaml, SQL, BASH

**Frameworks:** Angular, Vue.js, React, .NET

**Software & Developer Tools:** AWS, Git, Maven, Docker, Unix

## INTERESTS & ACTIVITIES

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Cornell Brazilian Jiu Jitsu Club, Sigbovik, Chess, Rock Climbing, Hiking, Theory of Computation