

# NATHANAEL GUTIERREZ

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## EDUCATION

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**Georgia Institute of Technology**  
Computer Science, Ph.D. (*In progress*)



**City University of New York**  
Computer Science, B.S. (December 2021)

## SKILLS

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**Programming Languages** Java, Python, SQL, Bash, Kotlin, C++, JavaScript, Rust  
**Frameworks** Spring, JavaFX, MPI4PY, PyTorch, scikit-learn, ReactJS  
**Databases** MySQL, PostgreSQL, IBM DB2, MongoDB, Couchbase  
**Other** Linux, HTML, CSS, L<sup>A</sup>T<sub>E</sub>X

## EXPERIENCE

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**American Express** — Phoenix, AZ **January 2022 - August 2022**  
*Software Engineer*

**Institute for Advanced Computational Science** — Stony Brook, NY **June 2021 - November 2021**  
*Undergraduate Research Assistant*

**Fordham University** — Bronx, NY **February 2021 - April 2021**  
*Undergraduate Research Assistant*

**Bronx-Manhattan SDA School** — Bronx, NY **May 2020 - August 2020**  
*Freelance Software Developer*

**Andrews University** — Berrien Springs, MI **August 2016 - August 2021**  
*Freelance Software Developer*

**Omnia Value Exchange Platform** — Chicago, IL **August 2016 - December 2017**  
*Software Engineering Intern*

## TEACHING

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- **Bronx-Manhattan SDA School**
  - Grade 8 Mathematics (SY 2019-2020)
  - Grade 8 Mathematics (Spring 2019)
  - Game Development with Python (Spring 2019)
  - Hands-on STEM (Spring 2018)
  - Science Recitation (Spring 2018)

## PUBLICATIONS

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1. C. Feldman, N. Gutierrez, S. Boos, N. Adler, D. Willcox, D. Townsley, A. Calder, "Simulating Pure Deflagrations of Hybrid C/O/Ne White Dwarf Progenitors using FLASH", *APS April Meeting 2022*.

## PRESENTATIONS

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1. **N. Gutierrez**, C. Feldman, A. Calder, "Exploring the sensitivity of Type Ia supernovae to initial conditions", *Stony Brook Research Symposium*, August 2021

## AWARDS & HONORS

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<b>Presidential Scholar</b> LEHMAN COLLEGE	May 2022
<b>Robert T. Craig Memorial Award</b> LEHMAN COLLEGE - CS DEPARTMENT	May 2022
<b>ECP Global Coding Challenge (2<sup>nd</sup> Prize)</b> AMERICAN EXPRESS	February 2022
<b>Engineering Distinguished Scholar</b> MICHIGAN STATE UNIVERSITY	February 2022
<b>National Science Foundation</b> AWARD #1950052 "REU SITE: DATA + COMPUTING = DISCOVERY"	Summer 2021
<b>Research Mentorship Fellow</b> GOOGLE RESEARCH	Spring 2021
<b>Tri-State ExploreCSR Award</b> FORDHAM UNIVERSITY	Spring 2021
<b>J. N. Andrews Honors Scholar</b> ANDREWS UNIVERSITY	August 2016