

## Elijah C. Nicpon (He/They)

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### Education

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#### Georgia Institute of Technology | Atlanta, GA

Candidate for Bachelor of Science in Computer Science, GPA 3.87

Fall 2021 – Present

Expected Graduation: Fall 2024

### Skills

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**Programming:** Java, JavaScript (Angular), C, Python (pandas, sklearn, deap, ArcPy), R (shiny)

**Tools:** Angular, Terraform, ELK Stack, Git, GitHub/GitLab Actions, VirtualBox, Figma, ArcGIS, Adobe Creative Cloud Suite, Canva, MS Teams, Slack

### Experience

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#### Kudelski Security

May – August 2022

##### Software Engineering Co-Op (Semester 1/3) / DevOps

A global cybersecurity provider that addresses challenges through MSS, advisory, customized innovation

- Implemented chunking upload mechanism in Apache Guacamole, an open-source clientless remote desktop project with 50M+ Docker Hub pulls, written in Java, AngularJS, and C. [Guacamole-1320 merged 7/30/2022] allows users to exceed CDN-imposed upload limits, which internally increased security incident response time. I leveraged VirtualBox Linux VMs, Apache Tomcat, Docker, and Wireshark to develop this feature.
- Designed UI/UX for a groundbreaking blockchain security application in Figma. The design included both mobile and web frameworks for a customizable, user-first application for a wide variety of blockchain use cases, from corporate to personal.
- Completed prototype of cross-cluster Elasticsearch instance capable of detecting pre-existing clusters, hosted by Elastic Cloud and orchestrated with Terraform. Resulted in increased vulnerability detection speed and greater project scalability.

#### NewFields Environmental Services

May – August 2021

##### Data Analyst & Software Engineer

A mid-sized global environmental, engineering, and construction management consulting firm.

- Performed assorted statistical analyses such as an environmental justice analysis for GA Power, which earned a contract extension with Southern Company's entire portfolio with tools including R, Python (pandas), ArcGIS, Excel, and Access.
- Developed a library of ArcGIS database tools with ArcPy (Python 2.7), increasing departmental productivity.
- Developed data scraping, intake, and management tools in Python (pandas, bs4) according to clientele needs, including table-scanning software that took in images of tables that Google & Adobe OCR failed to read, and exported CSVs.

### Projects

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#### Automated Algorithm Design

Spring 2022 – Present

##### Stocks Team | Georgia Tech Vertically Integrated Projects (VIP) Program

Project dedicated to the development of a framework that fundamentally alters the development of algorithms.

- Semester 1: Project onboarding including usage of deap and scikit-learn libraries in Multi-Objective Genetic Programming (MOGP) to develop exploratory algorithms that span multiple desired objectives, minimizing error and maximizing efficiency.
- Semester 2 (Current): Founding member of the new stocks team, focusing on portfolio-optimizing algorithms and techniques.

### Relevant Coursework

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**Data Structures and Algorithms:** Taught in Java with a focus on software development towards applications. (*In-Progress*)

**Media Devices Architecture:** Intro to hardware, machine language, assembly language, and C programming. (*In-Progress*)

**Full-Stack Web Development Bootcamp:** Online Udemy bootcamp with HTML, CSS, JavaScript, Node, React, MongoDB, and SQL courses for front to back web development. (*In-Progress*)

### Involvements and Interests

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#### Scouts of America (Formerly Boy Scouts of America) | Troop 477

- Eagle Scout

#### Georgia Tech SMILE (Spreading Messages in Love and Encouragement)

August 2021 – Present

- Student Engagement Committee Co-Marketing Chair

#### Georgia Tech Filipino Student Association

January 2022 – Present

- Marketing Director

#### Assorted Extracurricular Involvements and Interests

- Piano, Coffee, Cooking, Ukulele, Dance, Graphic Art, Volleyball, Camping, Climbing, Photography and Oxford Commas