

## Elijah C. Nicpon (He/They)

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### Education

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

Candidate for Bachelor of Science in Computer Science, GPA 3.88

Fall 2021 – Present

Expected Graduation: August 2024

### Skills

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

**Tools:** Adobe Creative Cloud Suite, Angular, AngularJS, Apache Tomcat, ArcGIS, Canva, Docker, ELK Stack, Figma, Git, GitHub/GitLab Actions, MS Teams, MongoDB, MySQL, Postman, Power BI, React, Slack, Snowflake, Swagger, Terraform, VirtualBox, Vue, Wireshark

### Experience

#### Kudelski Security *A global managed security services provider*

Part-Time Full Stack Software Engineering Intern

May 2023 – Present

- ◆ Developed sales and evaluation tools with Snowflake and Streamlit to provide compelling visualizations to aid sales.

Full Stack Software Engineering Co-Op

January– April 2023

- ◆ Built front-to-back SIEM rule execution monitoring application with technologies including Spring, Vue, and ArangoDB.
- ◆ Developed repository monitoring dashboard with Snowflake and Power BI to identify vulnerabilities in company projects.
- ◆ Independently developed and pitched improved company blog project to increase brand awareness and customer engagement.

DevOps Software Engineering Co-Op

May – August 2022

- ◆ Contributed resumable chunking upload mechanism to Apache Guacamole, a FOSS 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 and resume interrupted uploads, increasing incident response time and application resilience.
- ◆ Designed a user interface for a new blockchain security application in Figma. The design included both mobile and web frameworks for a customizable, user-first application for corporate to personal blockchain use cases.
- ◆ 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.

#### Georgia Institute of Technology Tutoring and Academic Support (TAS)

February 2023 – Present

- ◆ PLUS Leader (i.e. group tutor) for Intro to Object Oriented Programming

#### NewFields Environmental Services *A mid-sized environmental, engineering, and construction consulting firm*

May – August 2021

Data Analyst & Software Engineering Intern

- ◆ Performed environmental justice analysis for GA Power with R, earning a contract with Southern Company's entire portfolio.
- ◆ Developed a library of ArcGIS database tools with ArcPy (Python 2.7), increasing departmental productivity.
- ◆ Developed various 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

#### Automated Algorithm Design *developing an ML framework that fundamentally alters the development of algorithms*

January 2022 – May 2023

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

- ◆ Completed three semesters of research for my junior design. Created and managed a new sub-team, focusing on tailoring our multi-objective genetic machine learning framework to predict the stock market and build optimized stock portfolios.

**Fish** *An educational Game Boy Advance video game about saving our oceans, written in C, with original artwork. Available at <https://github.com/elijahnicpon/Fish>*

### Relevant Coursework

**Mobile and Ubiquitous Computing:** Foundations of seamless mobile and ubiquitous systems development. (*In-Progress*).

**Objects and Design:** A high-level overview of software engineering principles with Android Studio group projects.

**Data Structures and Algorithms:** Taught in Java with a focus on software development towards applications.

**Media Devices Architecture:** Intro to hardware, machine language, assembly language, and C programming.

### Involvements and Interests

Scouts of America (Formerly Boy Scouts of America) | Eagle Scout

Georgia Tech Filipino Student Association | Family Director

Assorted Extracurricular Involvements and Interests | Graphic Art, Mechanical Keyboards, Piano, Ukulele, Coffee, Cooking, Dance, Volleyball, Camping, Climbing, Photography and Oxford Commas