

# Nicholas Ionata

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## SKILLS

Languages – *Experienced:* Go, TypeScript, JavaScript, Python, PHP, Java, SQL; *Familiar:* Bash, Terraform

Technologies – Git, Docker, CI/CD, Node, React, gRPC, Protobuf, Nginx, Kubernetes, PostgreSQL, FoundationDB

Certifications – AWS Cloud Practitioner

## WORK EXPERIENCE

Software Engineer @ **Anduril Industries**, February 2022 – Current

- Implemented data retention on a time-series blob store, improving deletion efficiency – **Go/Protobuf/FoundationDB**

Software Engineer Intern @ **Anduril Industries**, May 2021 – August 2021

- Built an end-to-end load testing tool for a core data ingestion pipeline – **Go/gRPC/Protobuf/Kubernetes/CCI**
- Discovered and addressed ingestion bottlenecks to increase throughput and fault tolerance
- Increased storage observability to support data retention efforts – **Go/FoundationDB/Datadog**

Software Engineer @ **Branch**, January 2021 – March 2021

- Developed a secure proxy layer to dynamically connect users to WebSocket servers – **Nginx/Java/Docker**
- Built out cloud infrastructure on AWS and setup CI/CD – **Terraform/AWS(ECS/ELB/CloudFront/S3/Lambda)**

Software Engineer @ **Stream Monkey**, April 2020 – December 2020 (*Took a break from school*)

- Developed a distributed ingestion service (processes ~2 million requests/hour) to replace a legacy system, reducing monthly AWS costs by 73% – **TypeScript/AWS(CloudFront/Lambda/Kinesis/Elasticsearch)**
- Rebuilt S3 multipart upload component to enable multi-file uploads and support dynamic destinations – **Vue/PHP**
- Integrated YouTube Live Streaming API to automate a manual user workflow – **Vue/PHP/JavaScript/YouTube API**
- Wrote browser and integration test suites to support CI efforts – **PHP/Dusk/Codeception**

Backend Engineer Intern @ **Stream Monkey**, May 2019 – July 2019

- Migrated 1.08 billion documents to Elasticsearch 6.7 in 14hrs. – **Node/AWS(Lambda/DynamoDB/S3/Elasticsearch)**
- Supported the transition to MediaConvert leading to a 50% reduction in origin data access and faster transcoding
- Developed an invoice service to generate and serve PDFs to customers – **Node/AWS(CloudFront/S3/Lambda)**

## EDUCATION

B.S. Computer Science @ **University of Florida Honors Program**, August 2017 – December 2021

- GPA – 3.87**
- Involvement – Undergraduate Research Assistant, Software Engineering Teaching Assistant
- Relevant Coursework – Software Engineering, Software Security, Networks, Databases, Data Structures & Algorithms

## PROJECTS

CaSMM, <https://github.com/STEM-C/CaSMM>, January 2020 – September 2020

- Led architecture and backend development of a cloud IDE – **Node/Arduino/PostgreSQL/Docker**
- Implemented a CI/CD DevOps pipeline – **Bash/Node/Github Actions/Docker/Heroku**
- Funded by the National Science Foundation STEM+C grant

Danger.ai, <https://devpost.com/software/danger-ai-ut58q6>, January 2019

- Won 2nd Place and the Best Use of Google Cloud Platform at SwampHacks V
- Developed a full stack web app to display processed videos and granular metrics – **React/Flask/Cloud Functions**

Scanned LLC, <https://nicholasionata.com/Scanned-Website>, September 2016 – September 2018

- Won 1st place and \$10,000 from the Next Generation Tech Startup Competition
- Developed the iOS, Android, and Web apps to support 750+ users – **Swift/React Native/React/Firebase**

## AWARDS

1<sup>st</sup> in the U.S. and 3<sup>rd</sup> place globally (out of 54 teams) @ Visa Global Intern Hackathon

1<sup>st</sup> Place & \$10k @ Next Generation Tech

2<sup>nd</sup> place and Best Use of GCP @ SwampHacks V