

Nicholas Ionata

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EDUCATION

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

- **GPA – 3.89**
- Relevant Coursework
Software Engineering, Software Security, Networks, Databases, Data Structures & Algorithms
- Involvement
Undergraduate Research Assistant, Software Engineering Teaching Assistant

SKILLS

Languages – *Experienced*: TypeScript, JavaScript, Go, Python, PHP, Java, SQL, Terraform; *Familiar*: Protobuf, Bash
Technologies – Git, Docker, Kubernetes, AWS(Lambda/CloudFront/ELB/ECS/EC2/Elasticsearch/Kinesis/S3), Nginx, gRPC
Certifications – AWS Cloud Practitioner

WORK EXPERIENCE

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

- Built a benchmarking tool for the core distributed data ingestion pipeline – **Go/gRPC/protobuf/Kubernetes/CircleCI**

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

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

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

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

Software Engineer Intern @ **Visa**, May 2020 – July 2020

- Won 1st in the U.S. in intern hackathon with a data-driven offers platform – **Node/PostgreSQL/Nginx/Docker/EC2**
- Collaborated with 5 interns on a white paper on financial empowerment for the 1.7 billion unbanked adults worldwide

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

- Migrated 1.08 billion documents to Elasticsearch 6.7 ~14 hrs. – **Node/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 serve and create PDFs for customers – **Node/CloudFront/S3/Lambda**

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

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

1st Place & \$10k @ Next Generation Tech

2nd place and Best Use of GCP @ SwampHacks V