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 Intern @ **Anduril Industries**, *May 2021 – Current*
- 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 data storage observability to support topic-level 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**

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 worldwide

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 – Expected December 2021*
- **GPA – 3.89**
- 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
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