Nicholas Ionata

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EDUCATION

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

- **GPA – 3.91**
- Relevant Coursework
    - Software Engineering, Software Security, Database Systems, Data Structures & Algorithms, Operating Systems, Computer Organization, Digital Logic, Numerical Analysis
- Involvement
    - Undergraduate Research Assistant, Software Engineering Teaching Assistant

SKILLS

Languages – *Experienced*: TypeScript, JavaScript, Java, Python, SQL; *Familiar*: Bash, C++, Swift, ARM

Technologies – Node, React, PostgreSQL, Git, Docker, Lambda, EC2, Elasticsearch, CloudFront, Kinesis, DynamoDB, S3

Certifications – AWS Cloud Practitioner

WORK EXPERIENCE

Contract Software Engineer @ **Stream Monkey**, *April 2020 – August 2020*

- Developed a distributed stats ingestion service to replace a legacy system, increasing scalability and flexibility while reducing monthly AWS costs by 73% – **TypeScript/CloudFront/Lambda/Kinesis/Elasticsearch**
- The ingest service processes up to 1.8 million requests an hour at an average of 675ms a request

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**

Software Engineer Intern @ **Raymond James Financial**, *May 2018 – August 2018*

- Developed a cache staleness tool to reduce service latency below 1500ms – **Java/Spring**
- Assessed the SSDLC in a team of 6 interns and developed a proof of concept vulnerability dashboard – **React**

PROJECTS

CaSMM, https://github.com/STEM-C/CaSMM, *January 2020 – Current*

- 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

Bloom, https://github.com/nionata/Bloom, *January 2019 – April 2019*

- Served as a scrum master for a team of five – **Agile/Scrum**
- Configured a CI/CD DevOps pipeline – **TravisCI/Mocha/Heroku**
- Implemented key API routes and core middleware – **Node/Express/PostgreSQL**

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