

# Nicholas Ionata

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## EDUCATION

B.S. Computer Science @ University of Florida Honors Program, August 2017 - Expected May 2021

GPA: 3.92

- Relevant Coursework: Programming 2 (C++), Discrete Structures, Data Structures & Algorithms (C++), Computer Organization (ARM), and Software Engineering (JavaScript)

## SKILLS

Languages: Experienced: Java, JavaScript, Python, SQL; Familiar: C++, Swift, ARM

Technologies: Node, React, Vue, AWS (ES, S3, Lambda, DynamoDB), MySQL, PostgreSQL, Git, Mocha

## WORK EXPERIENCE

Intro to Software Engineering TA @ University of Florida, August 2019 - December 2019

- Taught core course content (Mongo, Express, React, Node, Git, Agile) weekly to 60 students
- Updated technical coursework, led weekly TA meetings, and answered student questions

Backend Engineering Intern @ Stream Monkey, May 2019 - July 2019

- Reindexed 1.08 B docs from ES 2.3 to 6.7 in ~14 hrs with Lambda, DynamoDB, and S3
- Supported the transition to MediaConvert, leading to dramatically faster transcoding and half the S3/Akamai data access, by creating a transferable data aggregator and writing unit tests
- Refactored Lambda authorizer (~20k reqs/hr): decoupled data access from the main controller to enable thorough unit testing, added account lookup by Stripe ID, and wrote additional unit tests
- Developed a PDF generating service to serve invoices on demand with S3, Lambda, and Cloudfront

Software Engineering Intern @ Raymond James Financial, May 2018 - August 2018

- Developed a cache staleness tool for a Java service to support an effort to reduce latency below 1500ms
- Assessed the SSDLC in a team of 6 interns and presented a React MVP for a vulnerability dashboard.

Industrial Engineering Intern @ Lockheed Martin, May 2017 - August 2017

- Set up a work-in-progress inventory tool with VBA that led to cost savings of \$10,000+
- Developed an estimating tool with VBA that transformed a process from 3 hours to 10 minutes
- Presented underperforming manufacturing operations weekly to the Space team

## PROJECTS

Bloom, [github.com/nionata/Bloom](https://github.com/nionata/Bloom), January 2019 - April 2019

- Served as scrum master and dev lead for a team of five following an Agile methodology
- Configured a CI/CD DevOps pipeline with TravisCI, Heroku, and Mocha
- Implemented the announcements API, middleware, and routing on the Node/PostgreSQL backend

Danger.ai, [devpost.com/software/danger-ai-ut58q6](https://devpost.com/software/danger-ai-ut58q6), January 2019

- Won 2nd Place and the Best Use of Google Cloud Platform at SwampHacks2019
- Developed a serverless REST API in Flask and a video/data repository using Google Cloud Platform
- Developed a dashboard in React that displayed processed videos and frame-by-frame metrics

Scanned LLC, [nicholasionata.com/Scanned-Website](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 with Swift, React Native, React Redux, and Firebase

## ACTIVITIES / AWARDS

Undergraduate Research Assistant @ University of Florida

Director of Information Technology @ Interfraternity Council

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

2<sup>nd</sup> place and Best Use of GCP @ SwampHacks2019

Home Depot Entrepreneurial Spirit Prize @ SwampHacks2018