John Cunningham

Westfield, NJ 07090   cunningjc10@gmail.com   (908) 472-3202   linkedin.com/in/cunningham1212

Education

Lehigh University, *Bethlehem, PA*
Bachelor of Science in Computer Science and Business [GPA: 3.4]   *Aug. 2017 – Jan. 2021*
- CS Courses: Artificial Intelligence Theory, Database Systems, Operating System Design, Design and Analysis of Algorithms
- Business Courses: Microeconomic Analysis, Financial & Managerial Accounting, Launching Entrepr. Ventures (Capstone)

Work Experience

American Century Investments, *New York, NY [Remote]*
Software Engineer Associate   *Jan. 2021 – Present.*
- Develop a **Python** library for a series of **AWS Lambda** connected by an **AWS Step Function** for an ML data pipeline.
- Deploy an **Outlook Add-In** connected to a **React [TypeScript]** app to automate ML performance feedback.
- Design **React [JavaScript]** application for displaying financial data with a mobile-first UI.

Part-Time Application Developer   *Jun. 2020 – Jan. 2021*
- Transitioned legacy Visual Basic code-base into **Python**, using **Pandas** and a **PyTest** unit testing strategy.
- Placed 3rd for a company-wide hackathon solution leveraging the **Microsoft Azure Bot Service**.

Lehigh University — Department of Computer Science and Engineering, *Bethlehem, PA*
Software Engineering Teaching Assistant   *Aug. 2019 – Jun. 2020*
- Instructed six student teams in weekly group and one-on-one sessions on topics such as **Android Studio**, **OAuth** (Google), **Design Patterns** (such as Singleton, Publisher/Subscriber, etc.), deployment to **Heroku**, Git (Bitbucket), documentation strategies, Agile [Scrum], among other aspects of software engineering. Contributed +50 answers to class Piazza.
- Graded four **TypeScript** front-end, **Java [Spark]** back-end, and Android applications bi-weekly.

American Red Cross, *New York, NY*
Technology & Communications Intern   *Jun. 2019 – Aug. 2019*
- Built **Python** bot with **Selenium** that identified the top 2,000 celebrities that New York City Red Cross volunteers followed.
- Designed and created a **REST API** to help mobilize partnered B2C technology companies for emergency campaigns.

Featured Projects (Additional projects on github.com/cunningham-code)

Ernst & Young — Cloud Governance Framework   *Jan. 2020 – Present.*
- Developed an interactive Cloud Governance Framework tool on a team of four for business partners.
- Created a **Vue** web app and a **Python** back-end to manage compliance of a given **Azure** instance.

Idea Oven — An App To Help Creators Manage Their Ideas   *Jun. 2020 – Present.*
- Created a **Flutter** app that stores +200 new ideas, and reminds users of +500 previous ideas, per week.
- Updated the app, and developed a feature road-map using insights from **Firebase Analytics** and **Firebase A/B Testing**.

Preff — A Social Network Helping Big Groups Meet Up Over Dinner   *Nov. 2017 – Present.*
- Raised $6500 in entrepreneurship grants for the startup by pitching to live panels.
- Built and launched a successful **Flutter** app on **Testflight [iOS]** and **Play Store** (**Beta Release**) **[Android]** and categorized +50 instances of user feedback using a custom **Node.js** and **Vue** website.
- Validated business model by networking with +100 food-service industry leaders at restaurant industry trade show.

Skills

General Purpose: Python, Java, Dart, C, C++, JavaScript (ES6), TypeScript, Node.js, UNIX/Bash
Web Development: Vue, React, Redux, Express, JQuery, Heroku, Netlify, Bootstrap, HTML, CSS, Selenium
App Development: Flutter, React Native, Android Studio, XCode
Databases: MongoDB, PostgreSQL, Oracle SQL

Hackathons & Competitions

Anu and Naveen Jain Women's Safety XPRIZE Competition   *Aug. 2017 – Oct. 2018*
- Competed against 85 teams across 17 countries to create innovative **Bluetooth LE** mesh network technology to provide emergency services to women in sexual harassment and assault situations with low internet connectivity.
- Designed **React Native** application using the RN Bluetooth library to send alerts in low-connectivity environments.
- Created a **React** web app to help emergency personnel receive alerts within the 90 sec. deadline of the competition.
- Placed in the top five teams internationally, and received a $50,000 grant.

Loopring Cryptocurrency Wallet — Lehigh Hackathon   *Apr. 2018*
- Won **1st place in blockchain prompt** out of 10 teams and facilitated the transfer of 1,000 Loopring cryptocurrency.
- Co-developed a website to facilitate the sending and receiving of cryptocurrencies, referred to as a crypto wallet.

See More: johncunningham.co