Omar Amin

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EDUCATION

- **Cornell University** Ithaca, NY
  Master of Engineering in Computer Science *Expected Graduation: May 2021*

- **Stony Brook University** Stony Brook, NY
  Bachelor of Science in Computer Science, GPA: 3.76 *Aug. 2015 – May. 2020*

EXPERIENCE

- **American Express** New York City, NY
  Digital Workplace Team *Summer 2020*
  - Enhanced safety of 10000 employees by building an application to enforce COVID-19 guidelines.

  Intelligent Automation Team *Summer 2019*
  - Reduced training time by over 300% by building an intuitive and easy to use React interface for labeling documents from AWS S3 and automatically updating the corresponding ML model.
  - Worked with ML team to implement a Document Classification and Optical Character Recognition API using Java and Spring Boot microservices.
  - Improved customer service representatives' productivity by 10% by automating the KYC process by using Netflix Conductor to orchestrate workflows.
  - Won first place in a hackathon out of 40 teams by creating a service for managing customers' subscriptions and providing analytics using React.

- **Stony Brook University** Stony Brook, NY
  Algorithms Teaching and Research Assistant *Spring 2019 and Fall 2019*
  - Increased class median by 5% by leading a team of 4 undergraduate TAs, holding weekly review sessions, and creating effective practice exams.
  - Compiled over 100 exercises and diagrams for *The Algorithm Design Manual*.

PROJECTS

- **Hack Together** *Flask, React*: Website for people to simultaneously compete in solving algorithmic questions, which can be queried by difficulty, topic, and company.
- **College For Me** *Django, React*: Website for high school students to record their college applications and to get intelligent recommendations and metrics.
- **Xv6 Projects** *C, Intel x86*: Various projects involving MIT's port of the UNIX v6 operating system such as a shell, a new thread scheduling algorithm, utilities, virtual memory, and a file system.
- **Asynchronous Job Server** *C, Linux*: High performance Linux server utilizing the latest system calls that accepts concurrent jobs from clients and provides accounting and resource information.
- **Malloc Library** *C*: A wrapper over malloc that's able to detect and report common C bugs involving pointers and memory corruption. In addition, I created a specialized memory allocator that utilizes segregated quick lists.

PROGRAMMING SKILLS

- **Languages (10000+ lines of code)**: Python, C, Java
- **Technologies**: Django, React, Spring Boot, AWS

ADDITIONAL EXPERIENCE

- **Professional Gamer** Los Angeles, CA
  Game: League of Legends; Team: Counter Logic Gaming *Dec. 2016 - May. 2018*
  - **Competitions**: On a sabbatical from university, I competed internationally in *League of Legends* tournaments for the team, *Counter Logic Gaming*. I was recruited after placing top 10 out of a million players on the solo rankings.