Matthew Ramina

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Education

Rutgers University, New Brunswick, NJ   2021
BS Computer Science   GPA: 4.0/4.0
- Relevant Courses: Data Structures, Computer Architecture, Intro to Linear Algebra
- Trustee Scholar at the Honors College

High Technology High School, Lincroft, NJ   2016
Diploma   GPA: 96.55/100

Work Experience

Commvault Systems, Inc. – *Software Development Intern*   June – August 2018
- Researched and developed backup and restore integration with cloud-managed NoSQL databases, allowing for user-managed full and incremental backups.
- Saw this project through design, prototyping, implementation, optimization, and code review.
- Carefully chose a protocol for data serialization based on performance and code maintainability.
- Tested solution across platforms, including between Windows and Unix, and between on-premises and cloud configurations.
- Utilized multithreading and internal C++ libraries to build a robust, performant backend solution.

RUAutonomous – *Software Engineer*   September 2017 – Present
- Implemented a full-stack solution for obstacle avoidance task of autonomous flight competition.
- Interfaced with judges' interoperability server, path generation engine, and drone.
- Utilized current web technologies including Django, React, d3.js, Redis, and WebSockets.

Commvault Systems, Inc. – *Software Development Intern*   May – August 2017
- Implemented two features relating to Salesforce and Oracle database management in a web frontend for system administrators.
- Assisted in design decisions related to the user experience of database backup management.
- Utilized current web technologies including J2EE, AngularJS, and Sass.

DuckDuckGo, Inc. – *Open Source Community Leader*   June 2014 – September 2017
- Built and maintained "Instant Answer" solutions for a search engine product including a timer, a stopwatch, and a public transit schedule viewer.
- Reviewed other contributors' work to ensure a common code and visual style.
- Utilized current web technologies including jQuery and Handlebars.js.

Skills

Programming Languages: Python 3, JavaScript/ES2015, Java 8, C++11
Web Development: CSS/Sass, Bootstrap, d3.js, React/Redux, Django, Flask
Miscellaneous Software: Git, UNIX, Bash

Honors and Awards

Rutgers University Dance Marathon 2018 – Top 5 Individual Raiser, Top Residence Hall
AUVSI Student Unmanned Aerial Systems Competition 2018 – #27 Overall Team
Boy Scouts of America – Life Scout