

# Eric Roberts

973 747 4993 • Morristown, NJ • eric@threedot14.com

## Education

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### Rutgers University

*B.S. Computer Science, B.S. Computer Engineering, GPA: 3.5/4.0, Dean's List*

**New Brunswick, NJ**

*Class of 2020*

## Professional Experience

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### Quorum Analytics

*Frontend Engineering Intern*

**Washington, DC**

*Summer 2019*

- Created feature to execute complex data lookups between system and user-created data
- Added feature to recover deleted items and ability to view event status within "sheets"
- Executed client feature requests by improving web interface for accessing and editing data
- Responsible for debugging production system using generated stack traces and logs from Sentry

### Snowplow Analytics

*Software Engineering Intern*

**London, UK (remote)**

*Summer 2018*

- Implemented in-memory cache for IP location lookups and refactored URL parsing
- Rewrote outdated Java to idiomatic functional Scala while improving speed and readability
- Improved performance of analytics software used by hundreds of customers

### Summer of Haskell

*Codeworld Contributor*

**remote**

*Summer 2017*

- Chosen from dozens of candidates to contribute to education tool and work with mentors from Google and LSU
- Added "Debug Mode" feature associating parts of pictures back to code and vice versa
- Improved editor tooling by adding user-defined symbols to autocomplete and improved documentation

## Extracurriculars

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### Creation of Games Society, *President*

*2017–present*

- Responsible for planning weekly meetings, bi-weekly workshops, Game Jams, and leading executive board
- Provide resources and training to 25 members in the design and creation of video games

### HackRU Organizer, *Research and Development Team*

*2017–present*

- Responsible for building and deploying tools used by hackers, volunteers and organizers
- Lead and taught team of three in building judging system, used to score submissions from over 300 hackers

### Undergraduate Student Alliance of Computer Scientists, *Curriculum Chair*

*2018–2019*

- Organized weekly Hacker Hours where students or alumni teach students about a relevant topic
- Reviewed presentations to ensure clarity and technical accuracy

### Boy Scouts of America, *Eagle Scout, Troop 34*

*2005–2016*

- Responsible for leading and teaching scouts, scout advancement, and participating in regular community service
- For Eagle Project, organized 15 volunteers and over 120 man-hours to build 24' footbridge for Morris County Park Commission

## Projects

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- **Discovered two vulnerabilities** in GoGuardian Chromebook management software used by school, and rewarded
- **ListenWithMe** — Website to sync music between computers, won prize at BostonHacks; Built with nodejs
- **AndromedOS** — Simple i686 kernel with custom bootloader; Built with C, x86 assembly
- **Grappleman** — Fast-paced platformer with grappling hooks and custom physics engine; Built with Unity and C#
- **Sledge** — Real time judging system used to collect and score hacks from HackRU and HackHers, lead team of three students as part of RnD team; Built with nodejs, Sqlite3, Typescript and React

## Skills

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**Languages** Haskell, Javascript, python, Scala, C, C#,  $\LaTeX$  **Tools** Linux, git, Bash, zsh, PostgreSQL, nodejs, vim, Webpack **Libraries** React, Redux, jest, enzyme, cats, nodejs, jQuery, Django **Platforms** Amazon Web Services, Travis CI, Jira, Sentry