Derek **Macie**l

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dere.github.io qithub.com/dere linkedin.com/in/derekmaciel

Education _

Rutgers UniversityNew Brunswick, NJB.S. IN COMPUTER SCIENCEFall 2018 (expected)

• Courses: Computer Architecture, Systems Programming, Operating System Design

• Fall 2016 Mentor in the Rutgers USACS Computer Science Mentorship program

Experience _

Open System Solutions at Rutgers University

Piscataway, NJ

STUDENT SYSTEMS PROGRAMMER

Jan. 2016 - Present

- · Led a team of four to redesign and implement new key features in Go: The Rutgers URL Shortener
 - Organized meetings to brainstorm and triage new features and delegate tasks.
 - Helped design and implement a RESTFul API using Flask-RESTful to interact with a new AngularJS front-end
 - Rewrote legacy MongoDB abstraction layer to use the popular Python MongoDB ODM MongoEngine
 - Extended our so-called "all or nothing" user permission system to add additional permission levels
- Improved onboarding and training documentation for new employees
- Fixed critical bugs and added CSV exporting to a employee hours-tracking web app in Python using Flask and MySQL
- Developed a command-line app in Python using rsync to improve the Rutgers University Linux distribution mirrors
- · Configured and maintained CentOS Linux and Solaris servers with Salt and Cobbler
- · Utilized and extended open source software such as Koji and Mock to automate building RPM software packages

Skills ____

Languages Python, C, Java, JavaScript, Bash Shell Scripting, HTML/CSS **Tools/Frameworks** Linux, Git, Flask, Salt, MongoDB, MySQL, Node.js, Phabricator

Projects _____

Strawberry Bot Personal Project

GITHUB.COM/DERE/STRAWBERRYBOT

- Music-playing bot for the voice chat program Discord, written in JavaScript using Node.js, deployed on Debian Linux
- Uses the Discord API and youtube-dl to accept YouTube song requests and stream them into the voice channel
- Plugin system allows functionality to be selectively disabled and allows users to extend the bot for other functions

Salt Open Source Contributor

GITHUB.COM/SALTSTACK/SALT

• Reported and fixed a High Priority bug with RPM package installation (Pull Request #35119).