

# ERIK BOESEN

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## Education

**Yale University**, 2019-2024, Combined BS/MS, Computer Science. (On leave & employed full-time 2020-21.) New Haven, CT

## Experience

### PowerSchool

*Associate Software Engineer*

NOV 2020 – AUG 2021

*Software Engineering Intern*

AUG – NOV 2020

- Built Node service, using AWS Lambda/Step Functions and integrating with PHP & Java codebases, to sync student grades between two recently acquired products, enabling corporate objective of unifying product suite
- Rebuilt assessment scoring platform and external API interface as TypeScript/Serverless microservice, resulting in 92% transaction time decrease and numerous tweets by happy teachers
- Authored whitepapers on API design & Aurora DB architecture changes to support +160% concurrent user load during COVID

### Prepared / Tech Intern

APR – AUG 2020

- Migrated Android app network layer from REST to GraphQL with Apollo
- Scraped Yale student face book into Postgres database and created directory web app with geographic filters to aid marketing team in finding new campus representatives
- Built expanded directory app for public at [yalies.io](https://yalies.io); now used by 1,600+ students, with API backing campus websites with 11,000+ total users

### Yale Student Technology Collaborative / Student Developer

OCT 2019 – MAY 2020

- Maintained Rails housing selection app on behalf of University

### Schoology / Software Engineering Intern

JUN – AUG 2019

- Hired as youngest ever intern after creating FOSS including popular browser extension that overhauled Schoology web app UI
- Developed interface features in PHP to enable alignment of graded materials to state learning standards
- Revamped Node dependency management with Snyk and Yarn, updating 800+ vulnerable dependencies in 12 apps
- Volunteered to run standup for Agile team and be on-call for 2 consecutive months

### MIT Marine Autonomy Lab / Research Intern

JUN – AUG 2018

- Executed human-robot interaction experiments using semiautonomous aquatic robots
- Added camera support and other features to MOOS-IvP (C++ robot autonomy framework)
- Gathered biometric datasets for lab sponsors DARPA & Battelle
- Completed MIT 2.680 graduate course

## Projects

**Yale Menus** / Modern Swift/Kotlin mobile app for dining at Yale, backed by public Python/Flask API and sophisticated Selenium web scraper. 4,000+ active users.

**Comethru** / Mobile social network to help college students find parties. Uses GPS background tracking to detect presence at events. 1450 active users and 98 events in first month. Featured in [Yale Daily News](#). (Angular, Python, Postgres)

**MeBots** / GroupMe chatbot market, with SDK to wrap Bots API for ease of development, currently hosting 700+ bots.

**Other Open Source Projects** / 350+ projects, 25,000+ commits. See [github.com/ErikBoesen](https://github.com/ErikBoesen) and organizations.

**FIRST Team 1418** (2015-2019) / *President, Programming Captain* / Led 50 member team to 4 World Championships. Wrote UI and embedded robot code, including open source projects used by 500+ teams.

**MasonHacks** (2017-2018) / *Founder* / Founded hackathon at my high school. Raised \$2,500 in corporate sponsorship.

## Awards

**FIRST Dean's List** (2018) / Highest student award in FIRST Robotics Competition, given to 10 students of 92,000 eligible.

**US Congress App Challenge Winner** (2017) / Won for [Opinr](#), a social network for aggregating diverse political perspectives.

**FRC Innovation in Control Award** (2016-2018) / Won 4x for creating [FRC Dashboard](#) platform, used by 100+ robotics teams.

## Skills

**Proficient:** Python, HTML/CSS, JavaScript, TypeScript, Java/Kotlin, Ruby, UNIX, PHP

**Familiar:** Swift, C/C++, Go, Perl, Lisps