

# 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

**Google** / *Software Engineering Intern*

MAY – AUG 2022

- Built, tested, and launched new quick-answer features on Google Search result page that render on 4.7 billion queries per day
- Wrote tech design documents for front- and back-end of new feature implementation and integrated teammate feedback
- Resolved several longstanding front-end bugs in sophisticated Java/TypeScript Search codebase

**Yale University**

*Undergraduate Learning Assistant*

AUG 2020 –

*Student Developer*

OCT 2019 – MAY 2020

- On teaching staff of CPSC 201, Introduction to Computer Science. Led office hours on LISP programming.
- Graded exams & weekly homework; refactored suite of Python/Bash scripts used for autograding and course communication
- Maintained Ruby on Rails web app for campus housing selection on behalf of the University

**PowerSchool**

*Associate Software Engineer*

NOV 2020 – AUG 2021

*Software Engineering Intern*

AUG – NOV 2020

- Built Node microservice, using serverless AWS Lambda/Step Functions and integrating with Java & PHP 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 SQL 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 directory into Postgres database and implemented geographic filters to help marketers find campus reps
- Released enhanced directory app at [yalies.io](https://yalies.io) for 5,000+ users, with API supporting campus websites with 24,000+ more

**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
- Automated Node dependency security audits with Snyk and Yarn, updating 800+ vulnerable dependencies across 12 services

**MIT Marine Autonomy Lab** / *Research Intern*

JUN – AUG 2018

- Executed human-robot interaction experiments using semiautonomous aquatic robots
- Added camera support, biometric data collection, and other features to MOOS-IvP (C++ robot autonomy framework)

## Projects

**Yale Menus** / Swift/Kotlin mobile app for dining at Yale, backed by public Python/Flask API and sophisticated Selenium web scraper. Shows allergens, nutrition, food reviews, and more. 5,500+ active users (80% of students).

**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, Java/Kotlin, JavaScript (TypeScript, React, Angular), HTML/CSS, Ruby, UNIX, PHP, Agile, JIRA

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

