

Erik Boesen

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Education

Yale University, 2019-2024, BS, 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 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 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; 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 / 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 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