

Erik Boesen

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Education

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

Google

Software Engineer

SEP 2024 – PRESENT

Software Engineering Intern

MAY – AUG 2022

- Built, tested, and launched new quick-answer features on Google Search result page that render on 2.7 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/C++ Search codebase

Experience

UMenus / *Cofounder, Lead Engineer*

APR 2023 – PRESENT

- Built Swift/Kotlin & React Native mobile apps for college dining on 2 campuses with Python, Postgres, Selenium backend
- Reached 75% of Yale undergrads as monthly active users (50% daily active) resulting in 4M sessions & 50,000+ food reviews

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

Yale University

Undergraduate Learning Assistant

AUG 2021 – MAY 2022

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

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

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

Yalies / Enhanced Yale student directory app at yalies.io. 5,000+ users (80% of students) and API support.

MeBots / GroupMe chatbot market, with SDK to wrap Bots API for ease of development, currently hosting 850+ bots.

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](https://yale.dailynews.com). (Angular, Python, Postgres)

Other Open Source Projects / 400+ projects, 30,000+ commits. See github.com/ErikBoesen and organizations.

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](https://Opinr.com), a social network for aggregating diverse political perspectives.

Skills

Python, Java/Kotlin, JavaScript (TypeScript, React, Angular), HTML/CSS, Ruby, UNIX, PHP, Swift, C/C++, Go, Perl, Lisps, Agile, JIRA, ML, AI, LLMs, Technical Writing, Datadog, SumoLogic, Kubernetes