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 3.7 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

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

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 (85% of students). University acquisition pending.
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. (Angular, Python, Postgres)
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