

# COREY COLE

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## PROFILE

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### Senior full stack engineer in native and web applications

Comfortable embracing many roles including product design and project management

## WORK EXPERIENCE

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### Senior Software Engineer, Cofounder of Omnicom.ai (microphone sync app)

Seattle, WA

*Kernel Labs*

Jan 2020 - December 2023

- Built real-time (<200ms) audio signal processing system to synchronize and echo-cancel in C/Rust
- Built hardware integration for 6 figure corporate contract with Hewlet Packard (HP) in C/GStreamer
- Built full stack apps for 1000s of users in Typescript/React Native/AWS Lambda/Fargate/EC2
- Quantized machine learning model for real-time audio signal inference on Android
- Reversed technical debt through codebase cleanups resulting in improved engineer productivity
- Organized and managed team tasks with Github/Google Sheets/Slack automation/Jira/Trello
- Mentored junior developers and interns

### Software Engineer, Cofounder of Halloo (Alexa/Google Home app)

Seattle, WA

*Kernel Labs*

Apr 2018 - Jan 2020

- Built Alexa & Google Home voice social network (like Houseparty) using Typescript/Python/AWS
- Built mobile app for "Remote Reading" through audio files using Android/iOS/Flutter/Firebase/AWS
- Built game (like Cards Against Humanity) with in-house voice synthesis ML model
- Built Chrome Extension for de-noising audio with in-house ML model using JavaScript and Python
- Built a CICD pipeline using git webhooks, Docker, and Codeship
- Built an internal tool for browsing user analytics, logs and errors

### Research Demo Builder for Dan Suciu

Seattle, WA

*University of Washington CSE*

Sep 2015 - May 2018

- Built best-in-conference demo for VLDB 2018 and demo'd at ACM SIGMOD 2018
- Developed a SQL-based framework for drawing causal inference using Python and Postgres
- Leveraged SQL to scale coarsened exact matching past current tools
- Visualized and fixed bias in OLAP queries using Angular and Typescript

### Software Engineer, Cofounder

Seattle, WA

*BellHapp Inc*

Sep 2015 - May 2018

- Built restaurant mobile web app for the dine-in experience of ordering and real-time staff messaging
- Results correlated with an increase in revenue per customer in restaurant user testing
- Built the app from scratch, along with a lean team of 1-2 other engineers
- Led weekly meetings & task organization
- Owned product design and User Experience

### Software Engineer

King of Prussia, PA

*eBay Enterprise*

Jun 2015 - Sep 2015

- Built Magento e-commerce front-end linked to our legacy back-end as a proof of concept in PHP/SQL

## SKILLS, TOOLS & EXPERIENCE

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Languages: Python, Rust, C/C++, Go, SQL, Typescript, GStreamer  
Backend: AWS, EC2, Lambda, Fargate, Docker, Server side rendering, Postgres, SQLite, NoSQL, redis  
Frontend: Angular, React, Redux, React Native, Expo, Flutter, Native executables

## EDUCATION

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### University of Washington, Dean's List

Seattle, WA

Bachelor of Science Computer Science custom track in Informatics, Math minor

Sep 2013 - June 2017