

COREY COLE

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PROFILE

Senior full stack engineer in native and web applications

Comfortable embracing many roles including product design and project management

WORK EXPERIENCE

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

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

University of Washington, Dean's List, GPA 3.7

Seattle, WA

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

Sep 2013 - June 2017