

NICK FELKER

Software Engineer

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WORK EXPERIENCE

Software Engineer, Shopping

Google

November 2021 – Present New York, NY

- Built platform to streamline API transformations with AI
- Relaunched Shopify integration which tripled positive merchant sentiment

AI Angular Golang eCommerce

Assistant DevRel

Google

January 2019 – November 2021 New York, NY

- Managed summer interns to build new tooling for smart home platform
- Developed and released Chrome Extension for developer productivity

Smart Home Voice Technology Node.js Management

IoT DevRel

Google

June 2017 – January 2019 Mountain View, CA

- Built samples, contributed to API of Android Things & Assistant SDK platforms
- Attended external corporate workshops and assisted interested developers

Embedded Software Design AI Voice Technology

EDUCATION

Masters in Electrical & Computer Engineering

Rowan University

September 2019 – May 2024 Glassboro, NJ

- Published thesis **Design and Implementation of Truly Random Number Generation using Memristors for In-Memory Computing**

Bachelor in Electrical & Computer Engineering, Minor in Computer Science

Rowan University

May 2017 Glassboro, NJ

PROJECTS

Cubesat

University Clinic Project

- School project to develop **CubeSat** for testing novel memory technologies against radioactivity in space environments
- Led **Command & Data Handling** to develop software core

Typedoc Neo Theme

Open Source Project at Google

- Created & published new open source theme with readability improvements
- Project averages > **5K weekly downloads**, adopted for **Yarn reference docs**

Cyanobyte

Open Source Project at Google

- Open-source standardized spec for generating peripheral drivers

ACHIEVEMENTS



First Place at PennApps

Part of a team that developed skin-safe tattoo capacitive touch sensors, winning first place at world's largest university hackathon.

Teamwork

BLE

Embedded Software Design

Project Management



Best Design Award

Built nutrition check-in Android app with ML-based camera scanner

Android

UI Design

Machine Learning



Eagle Scout



Intellectual Property Award

Filed ten defensive publications on machine learning applications

SKILLS

Languages

- Java, JavaScript, TypeScript, C, C++, Golang, Dart, HTML, PHP, Python, MATLAB, Mathematica, C#, Verilog, MySQL, TI-Basic, Chisel

Hardware

- Arduino, ESP32, Raspberry Pi, DE0 Nano FPGA

Software Services

- Actions on Google, Firebase, Google Cloud, Heroku

Frameworks

- Node.js, Angular, jQuery, Bootstrap, Polymer, Flask, Chipyard

Software

- Adobe Premiere / Illustrator / Photoshop / Audition, Microsoft Office, Google Workspace, TI-Spice

EXTRACURRICULARS

Hour of Code

- Lead coding exercises at elementary schools

IEEE, New York Section

- Young Professionals, Vice Chair
Feb 2020 – Present

New Liberals, New York Chapter

- Aided candidates in city & state elections
Mar 2022 – Present