NICK FELKER

Software Engineer

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🔗 https://github.com/fleker 🔗 https://felker.dev

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 Memristorsfor 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 univerisity 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