ASHWIN RAMASWAMI

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TECHNICAL PROJECTS

ASHWIN.RUN: 2020 – Present

Ashwin currently runs a freelance consulting company that focuses on full-stack software development, cloud architecture, and consulting. https://ashwin.run/.

Ashwin has worked on projects across all three major clouds: AWS, Azure, and GCP. Ashwin also holds a TS/SCI clearance and a AWS Certified Solutions Architect - Associate certification. Here are some of our past and current clients:

- **The Linux Foundation:** Technical writing and research on various topics around open source software.
- **Nooks:** Improved scalability for the video-calling platform of the startup Nooks. Set up a CI/CD pipeline and infrastructure with Google App Engine, Google Cloud Build, and Google Kubernetes Engine.
- **Pulsar:** Architected and implemented a distributed system for aggregating industrial sensor data for the startup Pulsar, using AWS Lambda, React, and Cassandra on AWS.
- **Skiff:** (later acquired by Notion) Set up CI pipelines, developer infrastructure, and developed features for the end-to-end encrypted document collaboration platform Skiff. Used React, Express, Salesforce Heroku.
- **Eventive:** Architected and implemented a system for ingesting and serving video content for the startup Eventive, with DRM protection, using Azure Media Services. Managed compliance processes and formulated policies for cybersecurity. Built using React, Express stack.

OPEN SOURCE SOFTWARE DEVELOPMENT: 2019 – Present

Ashwin has helped create and maintain various open source software tools:

- **react-jsonschema-form:** Ashwin is the primary maintainer of react-jsonschema-form, one of the most popular forms libraries in React with over 14,000 stars on GitHub. Available on GitHub.
- **CodaLab Worksheets:** Architected and implemented infrastructure changes for the open-source AI compute platform CodaLab Worksheets, using technologies including Kubernetes, Docker, Azure Blob Storage, and Travis / GitHub Actions CI/CD. As the lead developer, Ashwin led weekly meetings; led hiring processes; and set priorities for the project. Available on GitHub.
- **TreeHacks:** Built Stanford's first and only hackathon application portal, which is highly performant to handle tens of thousands of applications and built using React, Node.js / Express, MongoDB, AWS Cognito. This portal began being used in 2020 and has been used at Stanford every year since. Available on GitHub.

TECHNOLOGY LAW AND POLICY

CYBERSECURITY AND INFRASTRUCTURE SECURITY AGENCY: *IT Specialist*   2020 – 2023
Worked on election security initiatives for 2020/2022; launched Crossfeed, a program used to identify vulnerabilities in public-facing critical infrastructure systems; and supported vulnerability scanning, open source, and AI policy initiatives. Used cloud technologies such as AWS Fargate, AWS Lambda, and Elasticsearch. The tool is available on GitHub.

SCHMIDT FUTURES: *Analyst*   2021 – 2023
Created and managed a $2 million grantmaking program on policy research and funds for sustaining open source software (OSS) communities, directly leading to over $6 million in new initiatives in this space. Wrote a research piece that helped lead to Congress's introduction of the Securing Open Source Software Act.

GEORGETOWN LAW: *Fritz Family Fellow*   2022 – 2024
Launched, helped raise $1M for, and organized applications and processes for the Judicial Innovation Fellowship, which places technologists and designers into state, local, tribal, and territorial courts to improve access to justice.

SEQUOIA CAPITAL: *Technology Law & Policy Fellow*   Jan – Jun 2023
Supported policy team around topics such as open source software and AI.

WIKIMEDIA FOUNDATION: *Legal Fellow*   2022
Worked with the legal team on global copyright and free expression issues.

GEORGIA OFFICE OF THE ATTORNEY GENERAL: *ABA Steiger Fellow*   2023
Worked on consumer protection issues, particularly privacy and safety on social media platforms.

MCKOOL SMITH: *Summer Associate* 2023
Supported litigation around software patents.

RESEARCH

STANFORD CENTER FOR RESEARCH ON FOUNDATION MODELS: *Researcher* 2023 – Present
Collaborate with the center on research around artificial intelligence, foundation models, and open source topics.

INSTITUTE FOR CONSTITUTIONAL ADVOCACY AND PROTECTION: *Researcher* 2023
Worked on litigation around rights to democratic participation, including election security and the fake electors scheme.

STANFORD INTERNET OBSERVATORY: *Researcher* 2020 – 2021
Worked on trust and safety, disinformation, and social media platform safety issues, including narratives around the 2020 election and COVID-19 pandemic. Helped publish [The Long Fuse: Misinformation and the 2020 Election](#) (2021). Built data pipelines using Apache Beam and Dataflow, BigQuery, and Twitter APIs such as PowerTrack.

STANFORD IMMIGRATION POLICY LAB: *Researcher* 2018 – 2023
Implemented a web interface for GeoMatch, which uses machine learning algorithms to help match refugees to resettlement centers and is currently used in a Swiss pilot. Used AWS EC2, Docker, Django, R.

EDUCATION

GEORGETOWN UNIVERSITY LAW CENTER: *Juris Doctor* 2021 – 2024
STANFORD UNIVERSITY: *Bachelor of Science in Computer Science* 2017 – 2021

PUBLICATIONS

A Safe Harbor for AI Evaluation and Red Teaming (2024) (with Shayne Longpre et al.), https://arxiv.org/abs/2403.04893

On the Societal Impact of Open Foundation Models (2024) (with Sayash Kapoor et al.), https://arxiv.org/abs/2403.07918

Fact and Friction: A Case Study in the Fight Against False News, 57 [UC Davis L. Rev. 171](#) (2023) (with Paul Ohm & Ayelet Gordon-Tapiero)

"Understanding the Cyber Resilience Act: What Everyone involved in Open Source Development Should Know" ([Linux Foundation](#), with Mirko Boehm)

"AI Transcription Isn't Working for Students with Disabilities. Here's How to Fix It" ([Georgetown L. Tech. Rev.](#), with Lee Tremblay)

"Why Section 230 reformers should start paying attention to social code platforms" ([Georgetown L. Tech. Rev.](#), with Esther Tetruashvily and Sean Long)

"In Open We Trust?" ([Commonplace](#))

"Protect Open-Source Software" ([WSJ](#), with Eric Schmidt and Frank Long)