Ashwin Ramaswami

I have 5+ years of experience architecting and implementing distributed web applications in the cloud, including AWS, Azure, and GCP. I have implemented DevOps CI / CD workflows and have deep familiarity with open source infrastructure and tooling, such as Terraform. I am also an experienced full-stack engineer; I have worked with projects involving Python, Node.js, and React, with databases including SQL, MongoDB, and Cassandra, with the entire development cycle up to productionization. I am looking for an architect role on a challenging problem. For consulting work, please see https://ashwin.run/.

Current work

Cybersecurity and Infrastructure Security Agency (CISA)
Election Security Initiative (June 2020 – Present)
Architected and implemented Crossfeed, a system for running scans to detect vulnerabilities in systems, using a distributed architecture with AWS Fargate, AWS Lambda, Elasticsearch, and React.

Stanford Internet Observatory
Research Assistant (April 2020 – Present)
Architected and implemented web scraping technologies and infrastructure to support disinformation research at the Observatory. Built pipelines using Apache Beam, GCP BigQuery, and Twitter PowerTrack.

CodaLab
Research Assistant (June 2019 – Present)
Architected and implemented infrastructure improvements for the machine learning platform CodaLab Worksheets, such as refactoring to use Azure Blob Storage and setting up CI / test infrastructure.

Technical consulting

Nooks
Technical Consultant (September 2020 – Present)
Worked to improve infrastructure and scalability for the video-calling platform Nooks. Set up a CI/CD pipeline and infrastructure with Google App Engine, Google Cloud Build, and Google Kubernetes Engine.

Pulsar
Technical Consultant (March 2020 – Present)
Architected and implemented a distributed system for gathering and aggregating real-time data from industrial machines for Pulsar, using AWS Lambda, React, and Cassandra on AWS. Led a team of developers for product development.

Eventive
Technical Consultant (June 2019 – Present)
Architected and implemented a system for ingesting and serving both livestream and video content for Eventive Virtual Festival, with DRM protection, using Azure Media Services.

Technical leadership

The Stanford Daily
Chief Technical Officer (June 2018 – June 2020)
As the first CTO of the Stanford Daily, I established a team to work on software engineering and set up training and development processes for the website and mobile app, using WordPress, React, and React Native.

TreeHacks
Organizer (June 2018 – June 2020)
Led the tech team for hackathon technology, and built and open-sourced Root, an application portal and hackathon management system. Uses React, Express, and MongoDB.

Anora
Engineering Lead (Nov 2017 – June 2019)
Architected and developed a full-stack web application and data pipeline to retrieve FDA application data and display it in a search engine. Led a team of engineers to develop the product. Used AWS Lambda, AWS CloudSearch, React.

Education

Stanford University
B.S. Computer Science (2017 – 2021)

Previous work

Google
Software Engineering Intern (June 2019 – Sep 2019)
Worked with the Search UI Optimization team to develop a system to detect regressions in latency metrics on the Google search results page. Also worked on interactive dashboards using Go.

NCR Corporation
Software Engineering Intern (June – Aug 2018)
Built REST APIs for the NCR Platform and adapters between payment systems using Java and the Spring framework.

Nightwatch
Technical Consultant (March 2020 – September 2020)
Set up CI pipelines and developer infrastructure for the E2EE document collaboration platform Nightwatch. Uses React, Express.

react-jsonschema-form
Maintainer (Jan 2019 – Present)
I maintain and release an open source React library for generating forms based on JSON Schema.

Contact

Email: aramaswamis@gmail.com
Github: https://github.com/epicfaace
LinkedIn: http://linkedin.com/in/ashwin-r

Stanford Immigration and Policy Lab
Research Assistant (Jan 2018 – September 2019)
Implemented a web interface that uses machine learning to help Swiss and US agencies with refugee resettlement. Uses AWS EC2, Django, R.

Certifications

AWS Certified Solutions Architect - Associate (2019)
Microsoft Certified Professional (2018)
Certified Scrum Master (2018)