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MOTIVATION

Making things that are useful to people and that work well.

EMPLOYMENT

Quorum AnalyticsWashington, DC2022-2024 | Senior Software Engineer(50 to 70+ hours/week)

2022–2024 | Senior Software Engineer 2020–2022 | Software Engineer II 2018–2020 | Software Engineer

Python, Django, SQL, PostgreSQL, JavaScript, TypeScript, React, Redux, D3, HTML, CSS, React Native, PostGIS, Elastic

Wrote and launched over a dozen flagship products for Quorum Analytics, the industry leading public affairs platform. I consistently solved the team's most complex technical challenges while delivering projects on time, in scope, and under budget.

- Instrumental in helping scale ARR from \$9M to \$64M+.
- Authored 5k+ commits, 1k+ code reviews, 700+ PRs, and conducted 100+ technical interviews.

• Led cross-functional projects in collection, organization, and presentation of legislative, regulatory, compliance, financial, geospatial, and user-generated datasets.

Projects			Duties	Leadership
PAC Hybrid	Technical Lead	Team of 10	Mentorship, coaching, onboarding	Wrote first design system
Quorum PAC	Technical Lead	Team of 8	Code Review (async, collaborative)	Created full-stack guild
Search UI/UX	Technical Lead	Team of 4	Interviews (technical, design)	Led apprenticeship program
Dashboards	Technical Lead	Team of 2	Tests (regression, integration, unit)	Mentored dozens of engineers
Transcripts	Frontend Lead	Team of 2	Technical Design Documents	Onboarding coach
Bulk Actions	Technical Lead	Team of 1	Product Requirements Documents	Upgraded major dependencies
International	Full-stack	Team of 2	Technical Documentation	Discovered bug in Google Chrome
Regulations	Full-stack	Team of 1	"Learning Lab" presentations	Longest tenured engineer
Search	Full-stack	Team of 2	Daily deployment, 24hr on-call shifts	Rockstar of the Quarter

Massachusetts Institute of Technology: Lincoln Laboratory (MIT LL)

Lexington, MA (40 hours/week)

Summer 2016 | Research Intern

Java, Android SDK, Google Maps SDK, JavaScript, ExtJS, HTML, CSS, SQL, Acme (Plan 9)

Wrote Local Evacuation Alert Verification (LEAV, sponsored by DHS S&T) for HURREVAC-eXtended (HVX, sponsored by FEMA) with the Humanitarian Assistance and Disaster Relief Systems (HADR) group at MIT LL on Hanscom AFB.

- Designed and built LEAV, an Android application that routes hurricane evacuees to shelters, visualizes evacuation zone status in an interactive map, and facilitates communication between Emergency Managers (EMs) and evacuees.
- Developed an interactive LEAV web module which enables Emergency Managers to update, visualize, and monitor the status of state evacuation zones in the HVX web interface.
- Reduced WFS-T request size by an order of magnitude.

TECHNICAL SKILLS

Languages	Python, JavaScript, TypeScript, Go, SQL, LATEX	SCM & CI/CD	Git, Github, Jenkins, Travis
Databases	PostgreSQL, PostGIS, Elasticsearch, SQLite	Infrastructure	Docker, Kubernetes, Ansible
\mathbf{Web}	Django, React, Next.js, D3, HTML5, CSS3	Observability	Sentry, Datadog, Grafana
Devops	AWS (EC2, RDS, S3, Lambda, DMS, Route53)	Design	Figma, Invision, Sketch, GIMP
	Atlassian (Jira, Confluence, Opsgenie), G Suite	Unix	sh, pkg-src, brew, x11, plan9port
Libraries	npm, Babel, Webpack, Gulp, Cypress, Mantine, Style	ed Components, Styl	us, Jest, react-testing-library

EDUCATION

Gettysburg College Gettysburg, PA

Bachelor of Science in Computer Science (3.60, Honors) and Philosophy (3.73, Honors) Class of 2017 Outstanding Computer Science Student Award

2013-2017

PERSONAL PROJECTS

In my free time, I enjoy working on creative and idiosyncratic projects. I recently scraped and analyzed the Electronic Code of Federal Regulations and extended bob—a Golang query builder—with Django features and syntax. I previously ported James Ashton's X-Face decoder from C to Golang, wrote wiki and blog platforms in Golang, found a bug in the Google Chrome URL parser, discovered a novel method to losslessly convert Susan Kare's Macintosh fonts from Classic Mac OS resource forks to macOS data forks, wrote a JavaScript weather script with retro bitmaps, created a 3x4 bitmap font, wrote a Mozilla add-on to display 'face' images embedded in email and newsgroup message headers, and won a Gentoo Linux interface design competition. My personal, professional, and open-source work is detailed in my CV: https://johnduncan.io/cv.pdf.