Asher Davidson

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Experience

Senior Software Engineer, Guidehouse via Elliassen (Remote) *Jan 2025 - Present*

- Created a set of ETLs in python to replace a legacy drag-and-drop system + improved performance by an order of magnitude
- Provided code review and technical advice to junior team members, improving the overall quality of the codebase and ensuring a consistent standard for new code
- Provided technical expertise regarding new functionality, helping ensure that new features could be added in a technically feasible way while staying within delivery timelines
- Added full-stack functionality to both the frontend (Vue, TypeScript) and the backend (Python, Django, DRF)
- Helped refactor some problematic areas of the codebase to be less brittle (de-spaghettified)
- Focused on delivering functionality with an excellent UX, including improving existing usability issues
- Used AI to assist with new development and routine work (e.g. creating component stubs, wiring up api calls and types, basic DB queries, etc.) and to refactor old code (e.g. vue options -> composition components)
- Interviewed candidates for internal full-stack, frontend, and backend software engineering positions
- Set up github runners for code formatting and automated test running

Thru-hiked the Appalachian Trail, hiked 2,197.4 miles from Georgia to Maine *Apr 2024 - Sep 2024*

- 166 days total; 58 rainy days; just under 1M feet combined elevation change (up + down); 13.2 average miles/day; 30.3 max miles in one day; 4 bears seen; 45 snakes seen; 5 pairs of shoes used

Senior Software Engineer, Entrupy (NYC and Remote) *Sep 2020 - Apr 2024*

- Worked directly with other internal teams to identify product issues and deliver full stack improvements
- Increased our internal luxury authentication team's SLA hit rate from 85% to 99%+ through new major frontend (JavaScript, TypeScript, Vue) and backend (Python, Flask) workflow UX features
- Coordinated multi-team projects involving many stakeholders, moving parts, and team availability
- Responsible for defining tasks for contractors and guiding them through to completion
- Proactively considered the tradeoffs of all feature requests, focusing on delivering max value to stakeholders
- Planned and delivered a major systems upgrade (Vue 2 -> 3 and Python 3.7 -> 3.11)

Software Engineer, PSEG Long Island (Bethpage, NY and Remote) *June 2019 - Sep 2020*

- Developed JavaScript Node.js APIs for our mobile app using AWS Lambda and API Gateway
- Developed deployment scripts for the app api, which reduced the time it takes to deploy by over 90%
- Automated test data selection, saving the company hundreds of hours of manual labor
- Coordinated development efforts between multiple teams in different geographic regions, acting as the point-of-contact for all issues that arose and responsible for tracking them until completion
- Trained myself in performance testing with HP Load Runner to ensure the reliability of critical infrastructure

Software Engineer Intern, Shell TechWorks (Boston, MA and Remote) *May 2018 - Dec 2018*

- Implemented dozens of frontend and backend website features to a legacy Flask + Angular.js project
- Set up CI/CD to streamline testing and deployment
- Wrote a Python application to replace an excel simulation, reducing the runtime from 30m+ to under 3m

Software Engineer Intern, Arctan, Inc. (Richmond, VA and Remote) *July 2016 - Jan 2018*

- Optimized a function in pgmpy which reduced the runtime of our simulations from 10m to under 30s
- Designed and built a new GUI using Julia and GTK to replace a single 20k line GUI (single file app)

Software Engineer Intern, LiquiZ (Stevens Institute of Technology, Hoboken, NJ) *May 2015 - Aug 2015*

- Wrote a frontend framework from scratch to render components using virtual dom fragments
- Created a WYSIWYG editor for creating and editing quizzes that students could later take
- Deployed and secured a server for application testing

Skills

Languages	Python, JavaScript, TypeScript, SQL
Web	React, Vue, Flask, FastAPI, Django, Node.js, SQL, Nginx, Websockets, HTTP, HTML, CSS, Redis, ec2, s3, AWS Lambda, AWS API Gateway
Databases	DynamoDB, PostgreSQL, Redis, MySQL, Sqlite, Aurora
Tools	AI (Claude, ChatGPT, Aider, etc.), git, Github, Docker, CI/CD (general), application testing

Education

Stony Brook University, B.S. Computer Science *Dec 2018*