

PETER CAISSE

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Product-focused senior engineer with 10+ years of experience building software for the web. Skilled at technical leadership, project ownership, and cross-team collaboration. Loves to learn and share knowledge with others.

Technical Skills

- JavaScript/TypeScript
- Python
- Scala
- Postgres & PostGIS
- Linux (Debian/Ubuntu)
- Docker
- Docker Compose
- AWS
- Bash
- Terraform

Professional Experience

Pandemic Response Lab (Opentrons), New York, NY 01/2022 - 01/2023
Engineering Lead 08/2022 - 01/2023

- Reorganized software department to form teams around projects
- Met with reports to hear concerns, understand team dynamics, give feedback, and discuss performance
- Developed HL7 templating system for high-impact, urgent state reporting initiative

Senior Software Engineer 01/2022 - 08/2022

- Quickly acquired key domain knowledge and deep understanding of code base (TypeScript to AWS Lambda, Postgres, Terraform)
- Ran and troubleshoot deployments and improved deployment process
- Fundamentally reworked specific workflow steps to support new PCR tests
- Strategically addressed tech debt, focusing on highest impact DX issues to dramatically increase the team's productivity
- Organized bi-weekly tech talk to exchange knowledge and build engineering culture

Azavea, Philadelphia, PA

Software Engineer 12/2017 - 01/2022

- Led greenfield project to develop a histopathology app for the client with follow up contracts and total revenue of over \$1 million
 - Met weekly with client to demo features and build roadmap
 - Worked with domain experts to understand technical and regulatory requirements
 - Implemented key features for frontend (TypeScript), API (Scala), and image processing (Python)
 - Led production support effort to triage, mitigate, and fix issues

- Made key contributions to open-source redistricting app called [DistrictBuilder](#)
- Mentored junior engineers
- Introduced a frontend stack of React/Redux/TypeScript which became standard on team and was used for all new projects
- Gave internal technical talks and wrote high-traffic blog posts

PromptWorks, Philadelphia, PA
Software Engineer

03/2017 - 12/2017

- Developed mobile colorimetry app (React Native) with Bluetooth device integration via SDK backed by a Python admin
- Created take-home coding challenge for apprentice candidates
- Prepared estimations for prospective clients
- Led agile ceremonies and client demos
- Presented technical topics and published blog posts

Monetate, Conshohocken, PA
Software Engineer

08/2013 - 01/2017

01/2015 - 01/2017

- Rewrote client-facing admin in React with new API endpoints (Django)
- Built real-time analytics dashboard powered by Druid
- Developed common frontend components (React) and improved testing framework
- Gave technical presentations to peers on topics such as Django ORM and Testing in React
- Built upon infrastructure as code via Vagrant, Ansible, Packer, and CloudFormation to create new services

Javascript Engineer

08/2013 - 01/2015

- Built custom Javascript actions to run directly on client sites
- Emphasis on small file size (minimal dependencies), high performance, and coding defensively

Education

Universidade Estadual de Campinas (UNICAMP) - Campinas, Brazil
 MA, Linguistics, 2012

Drexel University - Philadelphia, PA
 BS, Information Systems, Minor in Business and French, 2009

Certifications

- [Algorithms on Graphs](#) (Nov 2017)
- [Algorithmic Toolbox](#) (Oct 2017)
- [Data Structures](#) (Mar 2017)

- [Divide and Conquer, Sorting and Searching, and Randomized Algorithms](#) (Feb 2017)

GitHub - <https://github.com/pcaisse>

Languages - Native English, Fluent in Portuguese and French