


# Samer Masterson

San Francisco, CA

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## Experience

- September 2015–  
March 2020 **Dropbox**, *Desktop and Backend Software Engineer*.
- Lead project to **reduce the overall crash rate** of the Dropbox **desktop client** for Windows, and **successfully reduced it by 46%**.
    - Drove the project from its inception by highlighting the high crash rate and **working with management to staff the project**.
    - Identified the cause of the crashes as an installer issue, which would require a deep, risky re-architecture of the desktop client to fix.
    - **Designed the new architecture to minimize risk** and had the design successfully reviewed by principal engineers.
    - Implemented and rolled out the new architecture over a **4 month period**.
  - Wrote a **server-side React Node.js service** that renders **React** components server-side and returns the rendered result in the initial response.
    - Handles **20 million requests a day**.
    - Improved time-to-render for the Dropbox files page by **3.5 seconds**.
  - Converted **1,200 Coffeescript** files to **Typescript**.
    - Wrote **automatic conversion tools** to migrate Coffeescript to Typescript with minimal manual effort.
  - Improved the Dropbox **desktop client**.
    - Primarily programmed in **Python, C, and Rust**.
    - Enabled developers to encode arbitrary messages in crashdumps.
    - Ended support for old Linux distributions.
- September 2014–  
May 2015 **Sourcegraph**, *Backend Software Engineer*.
- Worked on a **production Go web app** and an open source **code analysis project** for languages including Go, Java, and Python.
  - Scaled a code analysis backend to read and write **terabytes** of data by moving from **Postgres** to a custom datastore backed by **S3**.
  - Deployed on **AWS** using **Docker** and **Ansible**.

## Technical Skills

Languages: Expert: Python  
Proficient: Go, JavaScript,  
TypeScript, C

Technologies: Linux, Postgres, Docker, AWS,  
Desktop, Windows, React

GitHub: [github.com/samertm](https://github.com/samertm)      Text Editor: Emacs

## Education

- 2012–2013 **Computer Science and Mathematics coursework**, *George Mason University*.  
*Relevant Coursework:* Introduction to Data Structures, (Honors) Introduction to Object-Oriented Programming, Discrete Mathematics, Calculus I–III, Differential Equations, Linear Algebra.  
*Honors:* Dean’s List Fall 2012, Spring 2013.