

# Hugues Bruant

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## Work Experience

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**Staff Software Engineer — Affirm** — San Francisco, CA December 2018 – May 2023

Led critical Python 2 to 3 migration for ML Platform (model training & serving infrastructure).  
Designed inference infrastructure to scale to more ML models, deployed more frequently.  
Delivered major reliability and scalability improvements to CI for both testing and deploys.  
Delivered dramatic speedups to internal dev tooling, and major improvements to typing coverage and quality.

**Principal Software Engineer — AeroFS** — Palo Alto, CA June 2016 – August 2018

Orchestrated a complete re-architecting of the Amium product from private cloud to SaaS.

**Senior Software Architect — AeroFS** — Toronto, ON, Canada November 2014 – May 2016

Led a major overhaul of the core distributed file synchronization algorithm.  
Delivered significant scalability improvements across the entire product.

**Software Engineer — AeroFS** — Palo Alto, CA July 2012 – October 2014

Delivered major scalability and UX improvements to the AeroFS desktop client.  
Designed and implemented the RESTful Content API and related proxy/tunnel protocol.

**Software Engineer Intern — ARM** — Cambridge, UK June 2011 – October 2011

Optimized important plugins through multithreading and wait-free queues.

**Software Engineer Intern — Google** — Zurich, Switzerland June 2010 – August 2010

Rewrote the sitemaps fetch scheduler for better scaling. Peer bonus for “awesome work on sitemaps”.

## Education

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**Carnegie Mellon University** — Pittsburgh, PA, USA Spring 2012

Exchange semester in the Computer Science department.

**Ensimag, Grenoble Institute of Technology** — Grenoble, France 2009 – 2013

MS in Computer Science and Applied Mathematics.

## Notable Open Source Projects and Contributions

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**prunepytest** – *personal* – Python, Rust, pytest 2024

Optimize tests by picking a minimal safe set of tests to run for a given change.

**mypy** – Python 2020 – 2022

Multiple significant performance improvements upstreamed into mypy.

**golang** – Go 2017

Multiple performance improvements upstreamed into Go runtime and compiler.

**SSMP** – *AeroFS* – RFC, Go, Java 2015

Design, specification, and [reference implementation](#) of a simple messaging protocol.

**gockerize** – *AeroFS* – Go, docker, bash 2015

CLI tool to easily package Go app into a single-binary docker imager.

**XOS** – *personal* – z80 assembly 2009 – 2010

Operating System for TI-83+/84+ graphing calculators.

**Edyuk** – *personal* – C++, Qt4 2006 – 2009

IDE targeted at C++/Qt4 projects, with extremely fast and accurate code completion.