

Brian Z. Shi

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EXPERIENCE

Uber Technologies, Inc.

San Francisco, CA | May 2016 - Present

Software Engineering Intern

- Backend engineer for China Growth, focusing on increasing rider acquisition in China.
- Developing an open-source state machine web framework and a highly-scalable and extensible signup/password recovery service.
- Code written in Go and will be deployed to millions of daily Uber riders in August.

University of Pennsylvania Medical School, Dept. of Radiology

Philadelphia, PA | December 2015 - May 2016

Image Analysis Programmer

- Developed a machine learning pipeline which quickly and accurately detects risk for breast cancer by analyzing mammograms.
- Created a texture analysis library with features such as lattice grid imposition and wavelet decomposition.
- Worked under Professor Despina Kontos in Penn's Center for Biomedical Image Computing and Analytics (CBICA).

University of Pennsylvania

Philadelphia, PA | May 2014 - December 2015

Teaching Assistant, CIS 121

- Taught weekly recitations, implemented autograders, held office hours, graded assignments and exams, and lead review sessions.
- Created writeups, interfaces, solutions, and test cases for coding projects.
- Improved the vast autograding infrastructure written in Java and Python, and added new tools for class statistics.

SumAll

Manhattan, NY | May 2015 - August 2015

Software Engineering Intern

- Backend engineer for SumAll, a startup that brings analytics, reporting, and business intelligence to social media platforms.
- Wrote RESTful, distributed, and sharded backend microservices that synced together the company's streams of user data.
- Developed in Java with DropWizard and Python with Flask, and used technologies such as Mongo, Dynamo, Jenkins, and Docker.

Freelance

November 2013 - Present

Contract Software Developer

- Worked on contract for several projects in spare time, here are some highlights:
 - Developed and maintained pcntesting.com, a web app used for creating and administering exams to medical school students.
 - Developed Node.js+Express backend for a fitness startup which connects athletes/exercisers to coaches/instructors.
 - Developed data visualization and analytics application for a startup which uses machine perception to improve posture.

EDUCATION

University of Pennsylvania

Philadelphia, PA | August 2013 - May 2016

Computer Science

Coursework:

Internet & Web Systems CIS 555	Special Topics in Algo. CIS 677	Analysis of Algorithms CIS 502	Machine Translation CIS 526
Distributed Software CIS 505	Database & Info. Systems CIS 550	Artificial Intelligence CIS 391	Scalable Cloud Computing CIS 212

SKILLS

Languages: Advanced: Go, Java, JavaScript, Python

 Proficient: Shell, C, SQL, PHP, HTML/CSS

 Beginner: Scala, Haskell, OCaml

Technologies: Apache (Server, Maven, Hadoop, Spark, Tomcat, Cassandra, Thrift), AWS (EC2, S3, Dynamo), Flask, DropWizard, Node.js, Express, Backbone, Jenkins, Docker, Git, Subversion, Vim, IntelliJ, Unix, Linux