
Values Clean code, Clean data, Clear team communication.

Skills**Languages**

Python	Go	JavaScript
Haskell		

Tools

Django	Flask	PostgreSQL
Angular	Ansible	SaltStack
Docker	AWS	Kafka

Operating Systems

Ubuntu/Debian	QubesOS	OSX
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Other

Test Driven Development	Functional Programming	WebRTC
Blockchain	WebSockets	APNS

Work History**LBRY**

Part-time Software Engineer

Oct 2021-Nov 2022, Manchester, NH**Non-custodial wallet sync service**

Open source web service in golang to synchronize a user's LBRY cryptocurrency wallet across multiple devices without access to the user's secrets. Defined client behavior to use a single password to encrypt the wallet and authenticate with the sync service.

Various Contracting/Freelancing**Apr 2020-Mar 2023****See Contracting Below****Mix.com**

Platform Engineer

Nov 2016-Sept 2019, San Francisco, CA**Member of API Services team**

Development/bug fixes in Go and Node.js services for content recommendation application. Interfaced with recommendation engine, and coordinated with Recommendation Service team on architecture decisions.

New version of recommended content categorization

Coordinated with Recommendation Service team to roll out new version of topic categorization system for recommended content. Included establishing initial set of topics and creating a plan to roll out future topics.

Feedback sent to Recommendation Service

Added hooks to user events on recommended content which sent feedback with context back to the Recommendation Service.

Basis (an Intel company)

Backend Engineer

Apr 2015-Nov 2016, San Francisco, CA**Development/maintenance for API service**

Member of API team for fitness tracking watch. Features, bug fixes, deployment, and configuration changes. Developed with Python/Flask, deployed using SaltStack.

Transitioning between two sleep data streams

Transitioning between two versions of the user's sleep data streams, while avoiding interruptions in both individual sleep events and daily aggregates.

APNS (Apple push notifications) Configuration

Debugging problems with APNS service and Python library. Configuration changes to APNS deployment on cluster, including installing new certs.

Work History

Brilliant (formerly Alltuition)

Senior Engineer

Jul 2011-Nov 2014, Chicago, IL / San Francisco, CA

Ajax View framework (brilliant.org)

Implemented a view framework on top of Django targeting old browsers. Facilitated reuse of code between partial and full page loads. Transparent fallback to non-javascript.

Practice Section (brilliant.org)

Implemented the backend of the initial version of the Practice Section on brilliant.org.

Python Client Library for FeeFighters Samurai API (alltuition.com)

Analytics Integration (brilliant.org)

Improvements to loan consolidation rate prediction system (alltuition.com)

Conducted Mechanical Turk based research project (alltuition.com)

Oracle (formerly Stellent)

Software Engineer

Feb 2006-Sep 2010, Chicago IL

Spreadsheet file parsers for Outside In

Maintenance, optimization, and feature implementation in C.

Contracting

ElectionBettingOdds.com - October 2020-October 2022 (on and off)

Add features to static site generator, aggregating data from multiple prediction markets

Sandstorm.io (open source project) - Oct 2021-Mar 2023 (on and off)

Upgrade the Sandstorm.io package for Etherpad-lite

Etherpad-lite (open source project) - April 2020-July 2020

Bug fixes and features for Etherpad, a self-hosted collaborative word processor.

Datamaglia (Django development) - Dec 2014-Feb 2015

Voyager Tech (Django development) - May 2011-Jul 2011

Shelfworthy (Django development) - Apr 2010-Oct 2010

Reuseit - Nov 2009-Dec 2009 / Feb 2011-Jul 2011

PHP/SQL development, feature/bug fixes for site, store and shipping systems

Brilliant - October 2020-July 2021

Planning and writing interactive online computer science course material

Projects

Share-A-Map

<https://github.com/orblivion/sandstorm-share-a-map>

Self-hosted OpenStreetMap web app for trip planning. Built for the Sandstorm.io platform.

Other Open Source

<https://github.com/orblivion/me>

Argument Clinic

Experimental structured debate website (now defunct). Had few, but enthusiastic users.

Education

Illinois Institute Of Technology

B.S., Computer Engineering

2001-2005, Chicago, IL

Miscellaneous Courses

Coursera: Functional Programming Principles in Scala

Course Record: www.coursera.org/records/yjD8PGuY9cGQpE5g

Erlang Camp 2014

A weekend-long crash course in Erlang and OTP, which took place in Austin Texas