+Daniel Krol

SENIOR SOFTWARE DEVELOPER

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Values

Clean code, Clean data, Clear team communication.

Skills

Languages

Python	Go	Node.js
TypeScript	Haskell	

Tools

Django	Flask	PostgreSQL
Angular	Ansible	SaltStack
Docker	AWS	Kafka

Operating Systems

Ubuntu/Debian	QubesOS	OSX

Other

Test Driven Development	Functional Programming	WebRTC
Blockchain	WebSockets	APNS

Work History

LBRY - Blockchain-based media platform
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 - Curation-based content recommendation
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) - Activity and sleep tracking
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) - Online STEM challenges
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) - View legacy office file formats
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 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

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Projects

Share-A-Map - Self-hosted open source web 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

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