Lexical Unit

Portland, OR resume@lexicalunit.com

Experience

Workplace

Lead Software Engineer

- Built and maintained InVision Studio, a React & Electron app used by five million designers
- Led our six person Platform squad in initial design to delivery of third-party plugins
- Organized and mentored five separate squads in development of Studio Runtime to support our next generation cloud-native platform

Workplace

Senior Software Engineer

- Lead developer of Scala based microservice for a $1 M Samsung partnership
- Architected an iOS & Python *Find Fitness Classes* feature in partnership with Mindbody
- Used ML in Python to build a patented classifier for identifying different kinds of fitness classes
- Refactored existing ruby microservices to use a new real-time stream based notification system, driving 20 k push notifications and emails per minute
- Planned and implemented the migration of the MyFitnessPal steps tracking feature used by 225 M users from a Rails monolith to a Go microservice, reducing response times by 300%

Workplace

Software Engineer II - Data & Products

- Instrumented iOS application with event tracking and built new Products centric UI feature
- Prototyped a “Buy Now” button using Stripe.js, a cross-device embeddable payment form
- Implemented a realtime high availability data pipeline using Kinesis and Storm
- Optimized Veg-o-Matic, a SQL based data slicing and reporting tool for A/B testing
- Architected aggregation service built on Druid.io, an OLAP realtime datastore

Workplace

Senior Software Developer - Data Sciences

- Leveraged sophisticated data mining techniques to solve big data analytics problems
- Designed and implemented robust Web API resources using Flask, gunicorn, and Nginx
- Collaborated with research and sales teams to produce client driven SaaS products

Workplace

Engineering Scientist Associate

- Designed high frequency active sonar installed on 75% of US nuclear attack submarines
- Implemented a target tracking and feature classification system for mine avoidance
- Wrote real-time simulation software for stress testing, debugging, and Navy certification

Experience Continued

Workplace

Software Engineer

- Programmed interfaces to data acquisition modules for lab machines
- Designed a mobile desorption oven as well as porosity and core gamma systems

Open Source

- nanodbc: A small C++ wrapper for the native C ODBC API
- pancake-master: A dynamic webpage for Master Pancake showtimes
- generator-studio-app: Scaffold generator for InVision Studio Plugins
- studio-api: The Studio Platform API for building plugins
- event-watch: Recurring event watch plugin for the Atom editor
- multi-wrap-guide: Multi-wrap guides for the Atom editor, featured in an Atom blog post
- atom-notes: Embedded notational velocity for Atom
- C++ dict: Proof-of-concept C++ dict class with Python-like features
- dotfiles: My personalized machine configuration management system

Education

School

Bachelor of Science in Computer Science

- Minors in Linguistics and Mathematics
- Implemented a buddy-system memory manager and a multi-level feedback process scheduler
- Coded in assembly for MIPS processor and modeled a pipelined processor in Verilog

Skills

- **Languages:** TypeScript/JS/ES6, Python, ruby, Scala, Go, Zsh/Bash, C/Obj-C/C++
- **Tools:** git, Docker, Node.js, Kubernetes, JIRA/Confluence, Jenkins, CMake
- **Services:** Amazon Web Services (AWS), Kibana, Librato, Kafka, Sentry, PagerDuty
- **Databases:** MySQL, DynamoDB, Storm, Druid.io, MongoDB, Vertica/Greenplum
- **Libraries:** Flask, Ruby on Rails, AKKA, Finatra, Boost, fabric, SQLAlchemy
- **Practices:** Agile, SCRUM, Test Driven & Behavior Driven Development
- **Markup:** YAML, JSON, HTML/CSS/LESS/Sass, Markdown, LaTeX, ERB
- **Operating Systems:** MacOS, Linux (RedHat and Debian based), Windows