Lexical Unit

Austin, TX   resume@lexicalunit.com

Experience

Workplace
Senior Tech Lead

- Lead a technical team in development of backend for Samsung Gear apps
- Designed and built a new *Find Fitness Classes* app from the ground up
- Integrated disparate backends with a push, email, and inbox notification system
- Helped build out the backend to support our fitness wearables

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, our 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
- Sharpened C++ and Python skills by attending PyCon, PyData, and C++ conferences
- 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 display for 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

Workplace
Software Engineer

- Programmed interfaces to data acquisition modules for lab machines

Open Source

- pancake-master: A dynamic webpage for Master Pancake showtimes
- multi-wrap-guide: Multi-wrap guides for the Atom editor
- nanodbc: A small C^{++} wrapper for the native C ODBC API
- dotfiles: My personalized machine configuration management system
- event-watch: Recurring event watch plugin for the Atom editor
- C^{++} dict: Proof-of-concept C^{++} dict class with Python-like features

Education

School

Bachelor of Science in Computer Science

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

Skills

- **Languages:** Python, ruby, Scala, Go, CoffeeScript/JS, Zsh/Bash, C/Obj-C/C++, LaTeX
- **Tools:** git, Atom, Clang, CMake, JIRA, Doxygen, GCC, buildbot, X Code
- **Services:** Amazon Web Services, Kibana, Graphana, Kafka, Sentry, PagerDuty, Librato
- **Databases:** Storm, Druid.io, Vertica, MongoDB, Greenplum, PostgreSQL, SQL Server
- **Libraries:** Ruby on Rails, Boost, fabric, yaml, GTK, Flask, cppunit, SQLAlchemy
- **Markup:** YAML, HTML/CSS/LESS, Markdown, Confluence Wiki, mediawiki
- **Operating Systems:** OS X, Linux (RedHat and Debian based), Windows