

Lexical Unit

Austin, TX

resume@lexicalunit.com

Experience

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 for a constellation of RMN properties
- 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 - ATL

- Designed HFA sonar display currently deployed on approximately 75% of US 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](#): Multiple wrap guides for the Atom editor
- [nanodbc](#): A very small, portable, and featureful C++ wrapper for ODBC
- [setup](#): 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, C++, Zsh/Bash, CoffeeScript, JavaScript, Objective-C, C, L^AT_EX
- **Tools:** git, Atom, Clang, CMake, JIRA, PagerDuty, Doxygen, GCC, buildbot, X Code
- **Databases:** Storm, Druid.io, Vertica, MongoDB, Greenplum, PostgreSQL, SQL Server
- **Libraries:** 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