

# NATHANIEL LEO

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## EDUCATION

### University of California, Davis

*Completed June 2016*

- **Major:** Bachelor of Science in Computer Science
- **Minor:** Technology Management
- **Coursework:** Data Structures and Algorithms: C++, Programming Languages, Introduction to Database Systems, Algorithm Design and Analysis, Theory of Computation, Computer Architecture, Assembly Language, Linear Algebra, Combinatorics, AP Java Computer Science, Operating Systems and Systems Programming, Software Engineering, Web Programming, Starting New Business Ventures

## SKILLS

**Languages** (Order of Proficiency): C++, Java, T-SQL, HTML, CSS, JavaScript

**Technologies:** Microsoft SQL Server, Microsoft Visual Studio, SQL Server Data Tools, Eclipse, Android Studio, Bootstrap, AngularJS, AJAX, Node.js, Logisim, Unix, Git, Microsoft Office, PC Assembly

## WORK EXPERIENCE

### Sacramento County Department of Technology Data Warehouse Support Intern

*February 2016 – June 2016*

- Performed extract, transform, and load processes in a data warehousing environment
- Built SSIS packages to incrementally load dimension tables, scheduled them as jobs, and wrote T-SQL queries for QA
- Overhauled team's internal SharePoint site and deployed SSRS reports containing database information

### UC Davis IET Hardware Support

*June 2014 – January 2016*

- Worked on a team supporting 650 computers and printers in 21 labs across the campus. More than 28,000 unique clients access the labs and print over 3 million pages annually
- Installed, upgraded, and configured Mac and PC hardware and software
- Provided advanced computer consulting to faculty, students, and staff

## PROJECTS

### Virtual Machine

- Created a virtual machine with support for multiple user space preemptive threads to load applications from shared objects
- Added the ability to create, allocate, deallocate, query, and delete memory pools
- Added the ability to mount and manipulate a FAT file system image

### Quantified Recipe Web Application

- Designed a dynamic web page that lets the user enter keywords to look up recipes and their ingredients using the food2fork API via an AJAX transaction
- Annotated the ingredient list with water usage numbers from a SQLite database

### Parcel Delivery System Android Application

- Each user of the system has a set of friends and will be at a particular location
- A sender of a parcel can choose a rendezvous location to meet up with the receiver

### CPU Design: Logisim

- Designed a 4-bit Central Processing Unit with 16 instructions and two instructions formats: immediate and non-immediate
- Implemented a four unit CPU: memory, ALU, register file, and decoder