



Nathan Blair

Software **Engineer**, Full-Stack Web **Developer**, and UC Berkeley **Student**

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## Education

**UC BERKELEY / B.S. ELECTRICAL ENGINEERING AND COMPUTER SCIENCE / AUGUST 2016 TO PRESENT**

Coursework: Data Structures, Machine Structures, Web Development, Discrete Math and Probability, Designing Info Devices and Systems I & II, Signals and Systems, Gadgets, Multivariable Calculus, Linear Algebra and Differential Equations

Competitions: 2nd Place Harvard (CS50x) Puzzle Hunt, 3rd Place Facebook Puzzle Hunt  
GPA: 3.55

## Experience

**RESEARCH SUPPORT ASSISTANT / CALTECH/JPL / JUNE 2014 TO JUNE 2016**

Published Work: Co-Author of "The NEOWISE-Discovered Comet Population and the CO+CO<sub>2</sub> Production Rates." published in The Astrophysical Journal.

Responsibilities: Executed Python Scripts that "stacked" images of comet candidates at their rates of motion, increasing signal-to-noise ratio and making them easier to authenticate. Performed daily quality assurance checks on minor planet candidates before forwarding confirmed objects to the Minor Planet Center.

Impact: Independently identified more than 35 comets previously undetected by the NEOWISE satellite, brought tasty snacks for my colleagues to share.

## Projects

— (See more on [www.nathanblair.me](http://www.nathanblair.me))

<b>Nathan's GOL</b>	<b>Bear Maps</b>	<b>SQL Interpreter</b>	<b>Voice-Directed Car</b>
(JS, SQL, PHP)	(Java, CS61B)	(Java, CS61B)	(Arduino, TI, EE16B)
Game inspired by Conway's Game of Life. SQL, PHP and AJAX requests enable high score tracking/storage.	Map of Berkeley supports scrolling, zooming, and route finding (Dijkstra). I made the back-end.	Database mgmt. system that parsed string input in CLI & created, loaded, selected, joined tables, etc.	Small car drives different directions by fitting audio input, closed loop control ensures straight driving.

## Skills

Languages (in order of proficiency): Java, Python, C, Javascript, HTML, CSS, SQL, PHP, RISC-V, Scheme, Objective C

Programs: Github, Bash, Photoshop/GIMP, IntelliJ, Microsoft Office Suite

High Level Skills: Functional & Object-Oriented Programming, Data Structures, Machine Structures, Full-Stack Web Design and Development, Signals and Systems, Circuit Design