Elena Herbold

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eherbold.github.io

Objective

Temporary employment in an Electrical Engineering, Computer Science, Computer Security, or Information Technology related field.

Education

University of California at Berkeley | Berkeley, CA
Currently completing a B.S. in Electrical Engineering and Computer Sciences
GPA: 3.42 | August 2014 to December 2018

Work Experience

- *NuVasive* – June to August 2016 – employed as IT intern; assisted IT team in updating DID lines, managing the VM servers, and ticket queue. Also helped streamline the Off Boarding process by creating a SQL database to store information on legal hold.
- *Pico Digital* – June to August 2012 – assisted the IT team in creating help documents, reworking the phone system, and updating software on the employee desktop computers.
- *Self-Employed Tutor* – 2011 to 2014 – tutored ten high and middle school students in geometry and algebra.

Class and Personal Projects – viewable on GitHub, please inquire for access to repositories

Gitlet (Java) – small version control system using a subset of git commands, built from scratch

CPU (built with a logic simulator) – a two-staged pipelined CPU that operates on machine code translated from TAL MIPS code. Designed from scratch.

Checkers61B (Java) – checkers game with additional rules and pieces (bombing and shielding)

Graph Analysis with Spark (Python) – computed web page popularity rankings using graph data from Facebook and other companies on Amazon's cloud computing centers with Spark.

Comic-Con LED-lit Wings (C on Arduino chip) – built and programmed a set of wearable wings reminiscent of Christmas lights to flash in patterns, based on a video game character's design.

Skills and Hobbies

- Programming Languages: C, Java, Python, SQL, LaTeX
- Relevant courses taken:

Discrete Math	*Calculus I, II, III*	
Data Structures	*Linear Algebra*	*Computer Architecture*
Electricity and Magnetism	*Differential Equations*	*Signals and Systems*

- Proficiency in basic Japanese – passed N4 level of JPLT, and have taken 3 years of Japanese language courses at the university level
- President of UC Berkeley's *East Asian Language and Culture Undergraduate Student Association* | January 2016 to present
- Lab Assistant for Introductory Computer Science class (CS61A) at UC Berkeley
- Volunteer at BACS (animal shelter in the Berkeley area)