

Isaak J Cherdak

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2336 21st Ave,

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Education:

Place: University of California, Santa Cruz

Graduation: Spring 2017 (Completed)

Bachelors of Science in Computer Engineering and Computer Science

Graduation: Spring 2019

Masters of Science in Computer Engineering

Relevant Coursework:

Abstract Data Types	Advanced Algorithm Analysis
Microprocessor System Design	Fundamental Compiler Design
Introduction to Operating Systems	Computational Models

Skill-Set:

- 4 years of extensive experience with both C and Java
- 3 years of extensive experience with embedded systems
- 3 years of experience with Scripting Languages such as Bash/CSH on various Unix platforms
- 3 years of experience with command line tools and text editors such as vim
- 3 years of experience with leading discussion sections and helping students debug code
- 3 years of experience with grading students in various classes such as data structures
- 1 year of extensive experience with Python / C++
- Able to handle 29 unit class loads while working

Work Experience:

- Storage Systems Research Center Assistant
 - Employer: UCSC (SSRC)
 - Dates: June 2016 - Present
 - Working on optimization and cleanup of gferasure, a Galois Field arithmetic library
 - Also working on documentation
 - Working on a kernel/OS (currently in early stages)
 - Currently doing research regarding Virtual Machine Extensions (VMX)
- Control Systems Engineer at Microgrid development research
 - Employer: UCSC (Senior Design Project)

- Dates: October 2016 - June 2017
- Need to help make a thoroughly researched recommendation to the UN about the design of a Microgrid in Vanuatu
- Specifically concerned with details pertaining to the control system of Microgrid such as acceptable failure, efficient scheduling of system, security, etc.
- Controls Systems Engineer at Arboretum Microgrid
 - Employer: UCSC (Senior Design Project)
 - Dates: December 2016 - August 2017
 - In charge of sensor data collection system
- Tiny Home Power System Developer
 - Employer: UCSC (College 8, now Carson College)
 - Dates: July 2016 - Sept 2016
 - Integrated Outback Mate3 and Midnite Solar Classic 150 into a system which automatically shows data on a web dashboard
- Intermediate programming in Java tutor/grader
 - Employer: UCSC
 - Dates: Sep 2014-Dec 2014, Sep 2015-Dec 2015, Jan 2016-Mar 2016, Oct 2016-Dec 2016, Jan 2017-Mar 2017
 - Held two hour sessions twice a week
 - Ensured all conceptual and specific questions were answered
 - Provided information about basics of java programming
- Introduction to data structures tutor/grader
 - Employer: UCSC
 - Dates:
 - Tutor/Grader: April 2015-Jun 2015, Sep 2015-Dec 2015, Apr 2016-Jun 2016
 - Grader Only: Jun 2015-Aug 2015
 - Held two hour sessions twice a week
 - Ensured all conceptual and implementation specific question were answered
 - Provided information about creating and working with data structures in C and Java
- Introduction to assembly language tutor
 - Employer: UCSC
 - Dates: April 2015-Jun 2015, Sep 2015-Dec 2015, Jan 2016-Mar 2016, Oct 2016-Dec 2016.
 - Help two hour sessions twice a week
 - Ensured all conceptual and implementation specific questions were answered
 - Provided information about basics of logic design and assembly language
- Server Manager / Host
 - Employer: Self
 - Dates: Oct 2010 - August 2014
 - Host / Managed video game servers for my community that was 800+ members
 - Most games were from valve but primary one was Team Fortress 2

Achievements/Awards/Certificates:

May 2015, 3rd place in Google Shipwars