Michael A. Sevilla

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EDUCATION

2018	Ph.D., Computer Science, University of California, Santa Cruz	GPA: 3.97
2014	M.S., Computer Science, University of California, Santa Cruz	GPA: 3.97
2011	B.S., Computer Science/Engr., University of California, Irvine	GPA: 3.74

INDUSTRY EXPERIENCE

Research Intern: *Los Alamos National Lab* (Ultrascale Research Center), Los Alamos, NM — Jun 2017 - Sep 2017
- Saved memory by integrating cache management API into molecular dynamics app[†]
- → *Technologies*: Cray supercomputer, Slurm; *Languages*: C++, Lua

Storage Engineer: *Hewlett Packard Enterprise* (Chief Technologist Office), Fremont, CA — Jun 2013 - Nov 2016
- Facilitated the execution of legacy apps on the cloud by implementing file gateways
- → *Technologies*: Swift, Ceph; *Languages*: Python, C++
- Evaluated scale-out compute on object storage and in-memory file systems
- → *Technologies*: Hadoop, Swift, Alluxio
- Designed benchmarking harnesses for internal storage offerings
- → *Technologies*: Docker, Ansible

Hardware Testing Intern: *Cisco Systems*, Irvine, CA — Jun 2010 - Sep 2011
- Verified router functionality by executing and modifying test suites

Firmware Testing Intern: *Hewlett-Packard*, San Diego, CA — Jun 2005 - Sep 2005
- Analyzed performance metrics leading to detailed trend analyses

AWARDS & FUNDING

Research Funding: *Center for Research in Open Source Software (CROSS)* — Mar 2015 - Jun 2018
- Technical lead, programmable file systems (Mantle[⋆], Cudele[°], Malacology[•], Tintenfisch[‡])
- Contributor to the Ceph open-source storage system

Mentor Funding: *Google Summer of Code (via CROSS)* — May 2018
- Convention and command-line interface for conducting scientific explorations

Travel Award: *European Systems Conference (EuroSys '17)* — Apr 2017

Travel Award: *Symposium on Cloud Computing (SoCC '13)* — Oct 2013

Teaching Assistant: Operating Systems, 3D Modeling, CS Intro — Sep 2011

Undergraduate Honors: Cum Laude, Outstanding Contribution to Research — Jun 2011

Research Funding: *Undergraduate Research Opportunities Program* — Jun 2010
- Developed a hardware intrusion detection system on an FPGA

SELECTED FIRST AUTHOR PUBLICATIONS (ACCEPTANCE RATE)

SC'15	⋆	"Mantle: A Programmable Metadata Load Balancer for the Ceph File System" (22.1%)
EuroSys'17	•	"Malacology: A Programmable Storage System" (20.5%)
IPDPS'18	°	"Cudele: An API & Framework for Programmable Consistency & Durability..." (24.5%)
CCGrid'18	†	"Programmable Caches with a Data Management Language and Policy Engine" (20.8%)
HotStorage'18	‡	"Tintenfisch: File System Namespace Schemas and Generators" (36.7%)