

Catherine Weiss

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EDUCATION

Loyola Marymount University
Bachelor of Science, Applied Mathematics
Minor, Computer Science
GPA 3.7

Los Angeles, CA
May 2017

PROFESSIONAL EXPERIENCE

Huron Consulting Group
Senior Technical Consultant
Technical Consultant

Portland, OR/ Remote
June 2020 – Present
September 2018 – June 2020

- Communicate with clients from medical schools and top tier institutions to develop research compliance software tailored to their needs
- Assist in project planning for multi-million dollar SaaS software projects in the form of technical requirements, estimates, and project timelines
- Develop compliance software using javascript and SQL for IRB, IACUC, Grants & Agreements, and Animal Operations solutions
- Mentor new hires, including teaching basics of object oriented programming, and explain research infrastructure and software
- Lead projects as senior technical lead, helping one client launch 2 months ahead of schedule and save over \$100K of resources
- Revitalize internal technical processes, creating an API to integrate Huron's solutions with DocuSign
- Serve on the integration expert group to help other projects tackle integration problems
- Conduct database conversions from external Grants database to Huron SaaS solution SQL databases and help streamline the process for future client conversions
- Lead Huron's annual professional clothing drive for people experiencing housing instability

New Avenues for Youth

Jesuit Volunteer; Education Specialist and Day Services Advocate

Portland, OR
August 2017 – September 2018

- Build curriculum and tutor GED students experiencing homelessness in mathematics, science, language arts, and social studies

SKILLS

Programming: Java, Python, html, CSS, JavaScript, Matlab, Mathematica, LaTeX, SQL

Relevant Coursework: Data Structures, Algorithms, Complex Analysis, Real Analysis, Theory of Computation

RESEARCH

Thesis: *The Diffie-Hellman Key Exchange for Elliptic Curves*

May 2017

- Implemented the Diffie-Hellman Key Exchange on the group structure of elliptic curves, advised by Dr. Khadjavi

Summer Undergraduate Research Program, LMU

May 2016 – August 2016

- Researched early mathematics education using data analysis, used STATA to implement algorithms comparing students

Research Experience for Undergraduates (REU), CSUSB

June 2015 – August 2015

- Mapped hyperbolic knots to $PSL_2(\mathbb{Z})$
- Presented findings in research paper and presentation at CSUSB
- Funded by the National Science Foundation to work with Dr. Trapp

ACADEMIC AWARDS AND PROGRAMS

Honors College, LMU
Mathematics Grant, \$8,000
Dean's List
Service Learning Leadership Award, 2017

Sophomore Mathematics Scholarship, \$15,000
Academic Achievement Award, \$8,000
Semester Abroad, Cardiff University