

ZACHARY HINZ

Claremont, CA · (650) 305-8358 · zcha2020@mymail.pomona.edu · zachhinz.pages.dev/ · [linkedin.com/in/zachhinz](https://www.linkedin.com/in/zachhinz)

Education

Pomona College

Bachelor of Science, Majors in Mathematics and Computer Science, Minor in East Asian Studies

Claremont, CA

May 2024

- GPA: 3.8 / 4.0
- Relevant Coursework: Algorithms, Data Structures, Computer Systems, Machine Learning (IP), Natural Language Processing, Real Analysis I, Math Modeling (IP), Linear Algebra, Differential Equations, Probability, Statistical Linear Models

Skills

Programming Languages: Python (Pandas, NumPy), Java, SQL, R, MATLAB, Javascript (React, Typescript) C/C++, HTML, CSS

Development Tools: Git/Github, Microsoft Azure, Scrum/Agile Development Methodologies, RESTful APIs, Kubernetes

Foreign Languages: Mandarin Chinese (spoken and written, B2)

Work Experience

Software Engineer Intern

Estée Lauder Companies

New York, NY

June 2023 – August 2023

- Reduced data pull time by 60% by creating new data pipelines within data lake ingestion framework using Apache Spark. Pipelines more accurately captured and stored changes across all company wide relational databases.
- Allowed for more specific and complete data queries by developers by adding 2 new methods to Estee Lauder data query API
- Participated in all stages of software development lifecycle by designing, writing, testing, and deploying high quality code

Research Assistant and Data Analyst

Pomona College, The Chang Lab

Remote

June 2023 – July 2023

- Identified key biodiversity impacts of 22 different natural climate change solutions (ex: forest restoration, wetlands protection, etc) by analyzing dataset covering 260,000+ studies related to natural climate solutions using NumPy and Pandas
- Prepared and presented report to key stakeholders, including the Nature Conservancy, outlining climate change mitigation strategies tied with increased biodiversity alongside data visualizations generated with Matplotlib and Seaborn. Report and data will guide implementation and advocacy for natural climate change solutions

Mathematics and Computer Science Teaching Assistant

Pomona College, Department of Mathematics

Claremont, CA

Jan 2023 – Present

- Helped students better understand class material and prepare for exams by hosting three weekly study sessions
- Assisted with linear algebra and computer systems. Collaborated with other TAs and professor to augment lesson plans as needed

Resident Advisor

Pomona College, Office of Housing and Residence Life

Claremont, CA

Aug 2022 – Present

- Connected residents to campus resources, settled disputes, handled emergencies and maintained Pomona's code of conduct and safety standards within residence halls by serving as first point of contact for 92 first and second year students
- Promoted community development by planning and leading 10 events for residence hall members across the academic year

Data Analyst Intern

Pomona College, Career Development Office (CDO)

Remote

May 2022 – Aug 2022

- Assessed CDO's effectiveness at serving the student body as measured by post graduation job attainment rates for students of different demographic groups by reviewing, aggregating, cleaning, and analyzing two 6,000+ row Excel sheets with data on student internships and job placements
- Reduced time spent on manual work in Excel by 150% by spearheading automation of data collection, formatting, and cleaning using several Python web scrapers

Summer Associate

Insurtech NY

New York, NY

May 2022 – Aug 2022

- Identified 55 emerging tech startups within the insurance sector as potential investment opportunities for Insurtech NY
- Prepared report summarizing general market trends within the Insurtech space in 2020-2022

Extracurricular Experience

NSLI-Y Scholarship Recipient

US Department of State

Kaohsiung, Taiwan

June 2018 - August 2018

- Awarded nationwide competitive merit-based US Department of State scholarship to participate in Chinese language studies in Taiwan

Eagle Scout

Boy Scouts of America

Los Altos, CA

June 2012 - Oct 2016

- Awarded "Order of the Arrow" for seniority and leadership; Senior Patrol Leader; Order of the Arrow District Representative