Austin Ahlstrom

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Education:

M.Sc., Applied Mathematics • University of Washington   *Jun 2023*

B.S., Applied and Computational Mathematics (ACME) • Brigham Young University   *Apr 2019*
- ➢ Concentration in Biology, minors in Business Management, Computer Science, Japanese, and Music
- ➢ GPA of 3.79, graduated with honors, recipient of the National Merit Scholarship
- ➢ Publications: Computational Regiospecific Analysis of Brain Lipidomic Profiles (thesis), Utilizing Nonequilibrium Isotope Enrichments to Dramatically Increase Turnover Measurement Ranges in Single Biopsy Samples from Humans (contributor)

Research Experience:

Computational Neuroscience and **Mathematical Biology** groups, UW (Seattle, WA)   *Oct 2022 - present*
- ➢ Studied new research, and attended and delivered presentations on this research, for math applications in biology topics

Research Assistant, **BYU Biochemistry Department** (Provo, UT)   *Jan 2018 - May 2019*
- ➢ Programmed mainly in C++, Python, and MATLAB to contribute to research in understanding Alzheimer's and other diseases
- ➢ Leveraged interdisciplinary combination of mathematical models, computational methods, and innovative bio lab experimentation

Teaching Experience:

Substitute Teacher, **Seattle Public Schools** (Seattle, WA)   *Nov 2021 - Jun 2022*
- ➢ Taught various subjects in high schools all over Seattle, particularly math but also other STEM subjects and other areas
- ➢ Helped prepare lesson plans, execute classroom learning activities, and answer student questions on diverse subject material

Tutor, **Varsity Tutors**, **BYU Tutoring**, **Wyzant**, **Davis School Dist.**, etc.   *2010 - 2013, 2016 - 2019*
- ➢ Provided one-on-one instruction and support for students in a variety of subjects, primarily for university and high school content
- ➢ Spent hundreds of hours helping diverse students to improve test scores, raise grades, and gain confidence with class material

Professional Experience:

Software Engineer, Crystal Equation @ **Meta (Facebook)** (Seattle, WA)   *Sep 2021 - present*
- ➢ Worked with data pipelines, ML feature engineering, and other areas, using Python, SQL, Hack (PHP), React.js, etc.

Software Engineer, **Qualtrics** (Seattle, WA)   *Jun 2019 - Sep 2021*
- ➢ Full-stack programming and testing in microservices architecture using JavaScript (React/Node.js), Java, Python, Go, etc.

Software Engineer Intern, **MasterControl** (Cottonwood Heights, UT)   *May 2018 - Aug 2018*

Software Engineer Intern, **Google** (Tokyo, Japan)   *Jun 2017 - Sep 2017*

Software Engineer, **Lingotek** (Lehi, UT)   *Aug 2016 - May 2017*

Web Developer, **McKay School of Education** (Provo, UT)   *Sep 2012 - Apr 2013, Jan 2016 - Dec 2016*

Awards and Affiliations:

BYU Association for Computing Machinery   *Oct 2012 - May 2013, Jan 2016 - Apr 2019*
- ➢ Award winner in the Ninja Algorithm Challenge   *Jan 2016*
- ➢ 3rd Place, BYU ACM Programming Competition   *Mar 2018*

Academic Excellence Award, **BYU Department of Mathematics**   *Mar 2016, Mar 2018*

Skills:

Programming • Python, C++, JavaScript, Java, Go, SQL, MATLAB, … • machine learning, data science, neural networks, …

Teaching • 1-on-1 teaching experience tutoring, classroom teaching experience from substituting and volunteer ESL instruction

Languages • Japanese (professional, JLPT N1, ACTFL advanced), Spanish (intermediate), Mandarin Chinese (beginner)