KHANAK AGRAWAL

425-230-7082 / KHANAKAGRAWAL01@GMAIL.COM
WWW.LINKEDIN.COM/IN/KHANAK-AGRAWAL

EDUCATION

University of Washington, Seattle (September 2022 - June 2025) | 3.82 GPA, Annual Dean's List
Interdisciplinary Honors, Computer Science (Paul G. Allen School of CS), Business Minor
<u>Relevant Coursework</u>: Hardware/Software Integration, Programming Theory, Intro to Computer Programming, Calculus, Analytic Geometry, Linear Algebra, Inequality in Technology, Ethical Algorithms

WORK EXPERIENCE

STEP Intern, Google   **June - September 2023**
- Worked on Execution Systems Platform under Google Cloud technical infrastructure.
- Contributed to overall automation and capitalizing ~$100 million of inventory through migration project from cron jobs to push model for material lifecycle management in the data center.
- Collaborated with partner teams to understand infrastructure and align on new use case.
- Created an approved, 18-page low-level project design document.
- Implemented in Java. Created generator, integration, orchestrator, and unit tests and modified existing remote procedure calls. Applied asynchronous programming, querying data (SQL), protocol buffers, spanner, etc.

Incoming Undergraduate Research Assistant   **Spring 2024**
- Under Assistant Professor Nick Vincent (5-10 hours weekly) - ML/Data leverage/AI

Virtual Internship Program at Upkey   **July 2021**
- Learned about entrepreneurship, search engine optimization, marketing, business strategy, and more while working on sample projects for LinkedIn, Google Ads, IE School of Business, etc.

TECHNICAL COURSES / PROJECTS

- Proficient in Java, C, Assembly, JavaScript, Python, SQL, HTML, CSS, Linux, Git, Mathematics
- **Portfolio website:** https://khanakagrawal.github.io. Made with CSS and HTML.
- **Harvard CS50**: 11-week course(10-20 hours/week). on abstraction, algorithms, data structures, encapsulation, resource management, security, software engineering, and web development
- **Data Visualization:** Python, Pandas, Matplotlib. https://medium.com/@khanakagrawal01/analyzing-trends-in-insurance-and-smoking-d7a5c8ca5c2d
- **Predictive Model:** In progress. Python, NumPy. Creating a model to predict number of food boxes given out and prevent food waste/insufficient food on the volunteer free-food truck (mentioned above) given factors like weather, holidays, and season. Based on data collected and cleaned over 2.5 years.

EXTRACURRICULARS

UW RSOs: COM2 (largest CS organization at UW), **GEN1, Women in Computing**

Volunteering: ISKCON, Mary's Place   **September 2016 - ongoing**
- Served over 150 boxes of free food every other Sunday as part of the Food For Life program in U-District. Face-painting at large scale events (20,000+ attendees)
- Taught free dance classes at Mary's Place, a homeless shelter, pre-pandemic.

ASB: Class President, Class Treasurer, Commissioner   **May 2019 - June 2022**
- Spearheaded committees for all-school (1800+ students) and smaller (300-400) events like spirit assemblies, MLK assembly, dances etc.
- Assisted in allocation of school/district funds towards school amenities, clubs, etc. on the Senate.
- Fund-raised over $7500 with class officer team.

Girls Who Code: Marketing Manager, Mentorship Manager   **April 2020 - June 2022**
- Helped found club chapter and recruit over 50 members in first year through Marketing.
- Co-created instructional coding exercises in Java and mentored beginners and intermediate-level members

DECA (2019-2022) VP of mentorship International qualifier (2021-2022)
Dance - competitive and recreational (2010-ongoing)

Key Skills: Problem-solving, driven, collaboration, time-management, fast-learner, team work, algorithms, data structures

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Dear Hiring Manager,

For as long as I can remember, I have had this habit of saving the best for last. As a kid, I would try to peel off the cream in my Oreo cookie, my favorite part, so that I can eat it last.

I am this way about my homework too. All through high school and now in college, I do my math and computer science homework last every day. This is because I know that even at the end of the day, when I am tired and sleepy, I would have the motivation to do my work if it was one of these subjects because I enjoy putting them into practice.

I believe computer science is inherently about solving a problem, using an algorithm, and doing it in the most efficient way possible, minimizing the space and the time it takes, and this is part of why I enjoy it. Applying logic and intellectually challenging myself appeal to me. I like things I find straightforward and objective. I enjoy problem-solving.

Additionally, I have also been creative for as long as I can remember. Literally, in terms of my passion for art and dance, and indirectly, in terms of the way I can make various aspects of my life easier by applying some out-of-the-box thinking. A combination of these skills is what I hope to contribute to the industry and my fields of study: my creative problem-solving and my empathy. With objective, STEM-based fields like computer science, it seems as though everything is black-and-white. However, these fields are powerful. With this power, comes an ethical gray area that can be difficult to navigate if one is just focused on the objective. I believe that it takes more than just intellectual intelligence to make sure the positive impact can help further a business or help people, the negative impact is minimalized if not removed altogether. I hope to help harness the incredible potential of computer science with emotional intelligence and creativity to create a future of equitable, inclusive, and uplifting technology.

Sincerely,
Khanak Agrawal