

COLIN MONAGHAN

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EDUCATION

Bachelor of Science in Computer Science, May 2022

Bachelor of Science in Mathematics, May 2022

University of Puget Sound– Tacoma, WA

- Earned 3.85/4.0 Cumulative GPA
- Coursework: Algorithms and Data Structures, Operating Systems, Programming Language Paradigms, Computer Graphics, Linear Algebra, Number Theory, Partial Differential Equations

SKILLS

- Languages: Java, Python, C, JavaScript, HTML, CSS, Flask, Haskell, Prolog, Scheme
- Software: Eclipse, Spyder, Git, VisualVM, Excel, R & RStudio, MARS
- Operating Systems: Ubuntu, Windows, Mac OS

RESEARCH PROJECTS

Undergraduate Research Scholar, 05/2020-08/2020, **University of Puget Sound Computer Science & Math Department** – Tacoma, WA

- Collaborated with 2 professors and a fellow student to implement replacement policies in Java into a pre-existing database system, then analyzed the efficiency of the policies
- Diagnosed ambiguous problems and bugs and problem solved potential solutions
- Presented research in thorough formal presentation to math and science researchers and respective faculty advisors in program

ACADEMIC PROJECTS

- Implemented key components in C in a real OS kernel, including a ready queue, a robust CPU scheduler, synchronization mechanisms, deadlock detection and deadlock recovery
- Designed and implemented concurrent programs in C using proper synchronization techniques
- Implemented advanced data structures, advanced searching, dictionary algorithms and graph algorithms in Java

RELEVANT PROFESSIONAL EXPERIENCE

Computer Science Subject Tutor, 01/2020 to Current, **University of Puget Sound Computer Science & Math Department** – Tacoma, WA

- Helped students with a variety of learning and communication styles with concepts and reasoning in introductory and intermediate computer science courses

LEADERSHIP & ACTIVITIES

Cross Country and Track & Field Student-Athlete, 09/2018 to Current, **UPS** – Tacoma, WA

- Facilitated communication between fellow athletes and coaches as a team captain
- 2020 Indoor All-American, 2019 Cross Country All-Academic, 3-time National Qualifier, 3 Northwest Conference Titles, 2018 Harry Herbisky Award for Scholarship, Skill and Determination