

Alexander M. Harvey

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Qualifications Summary

Software engineering | Web/game design | Music performance and composition | Instructing | Management | Customer service

Education

- **University of North Carolina, Chapel Hill**, May 2022 (graduation), GPA 3.45 (Dean's List 2 semesters)
 - Major: **B.S. Computer Science**
 - Languages: under *Experience*
 - Relevant coursework: **Intro to Security; Operating Systems; Programming Language Concepts; Bioalgorithms; Discrete Structures; Models of Languages; Algorithms and Analysis; Introduction to Mechatronics; Physical Computing; Data Structures; Computer Organization; Peer Teaching in Computer Science**
 - Minor: **Music**
 - Instrument: classical guitar
 - Relevant coursework: Music Technology; Physics & Music; Theory; Classical Guitar Ensemble (6 semesters)
 - Minor: **Neuroscience**
- **High School, Asheville, NC**, June 2018 (graduation), GPA 4.58 (weighted)
 - Coursework includes **28 dual-enrolment credit hours** at AB-Tech Community College (GPA: 4.0 unweighted, President's List)

Experience

- Coding and Computer Applications
 - Languages (proficient): **Python, JavaScript, HTML, CSS, C, Java, Typescript, C++**
 - Languages (familiar): **C#, MIPS Assembly, Racket Lisp, Linux, PHP**
 - As part of a team: designed, coded, and also composed music for an online multiplayer game, *Spicy 9 Adventure*.
 - Runs on a custom **JavaScript** engine rendered using specialized **HTML** and **CSS** aided by **jQuery** library.
 - Used both the VS Code **Live-Share** plugin and a dedicated **Github** branch.
 - Filled many different roles when needed, from A.I. programming to map design.
 - As part of a team: designed a single-player video game using the **GameMaker** engine in Global Game Jam.
- Music and Performance
 - Transcribed into **sheet music** and **performed** Brian Patrick Carroll's *Beyond the Knowing* for UNC individual guitar lessons.
 - Transcribed into **sheet music** and **performed main melody** of Daniel Rosenfeld's *Living Mice* for UNC guitar ensemble.
 - Hired to perform solo guitar or piano at large weddings
 - Experience with different mixing softwares, including **Cubase, Adobe Audition, Logic**, and **GarageBand**.
 - Composed and performed closing music for **UNCA podcast**.
 - As part of a band: electric guitar, acoustic guitar, vocals, keyboard, and bass.
- Instructing
 - As a Learning Assistant for System Fundamentals and Computer Organization: assisted students in resolving coding and submission-process issues.
 - Responsible for grading students' code style and extra-credit submissions.
- Management
 - As an assistant manager for Swim Club Management Group (SCMG): scheduled shift order, delegated and directed tasks, attended manager meetings, and reported to upper level management.
 - Lead student cohort as a Learning Assistant for System Fundamentals and Computer Organization.
- Customer Service
 - Interfaced directly with customers as a lifeguard for SCMG, including resolving customer complaints, as well as communication and work coordination with upper-level management.
 - Responded to all phone inquiries as an office assistant for the UNC Bands department.

Work History

- **Lab Intern**, Oak Ridge National Laboratory, (June 2022 - August 2022)
- **Learning Assistant**, UNC Computer Science Department, (August 2021 - May 2022)
- **Assistant Manager**, Swim Club Management Group, (SCMG), LLC, Asheville, NC (May 2020 - August 2020)
- **Head Lifeguard**, SCMG, (May 2019 - August 2019)
- **Lifeguard**, SCMG, (May 2018 - August 2018)
- **Office Assistant**, UNC Bands, Chapel Hill, NC (August 2018 - May 2019)

Other Certifications and Skills

- **UNC BeAM (makerspace) certifications**: Laser Cutter, 3D Printer, Machine Shop, Sewing, Embroidery Machine
- **American Red-Cross** Lifeguarding/First Aid/CPR/AED certification

references available upon request