

ALEX M. HARVEY

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QUALIFICATIONS SUMMARY

Software engineering, web/game design, music performance and composition, instructing, management, and customer service.

EDUCATION

- **University of North Carolina-Chapel Hill**, Senior, graduation May 2022, GPA 3.4 (Dean's List 3 semesters)
 - **Major: B.S. Computer Science**
 - Languages: below
 - 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, Windows PowerShell, PHP**
 - As a team member designed, coded, and also composed music for an online multiplayer game, Spicy 9 Adventure (<https://www.kmpunc.com/>).
 - 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.
 - Designed a single-player video game using the **GameMaker** engine in Global Game Jam.
- **Music and Performance**
 - Transcribed Brian Patrick Carroll's *Beyond the Knowing* into sheet music for UNC individual guitar lessons.
 - Performed in the UNC classical guitar ensemble; hired to perform solo guitar or piano at large weddings.
 - Worked with different mixing softwares, including **Cubase, Adobe Audition, Logic, and GarageBand**.
 - Composed and performed closing music for UNCA podcast (<https://open.spotify.com/show/6Dumvg6hlQu13onRQzZjRi>).
- **Customer Service and Communication**
 - As a Learning Assistant for Computer Organization class, assisted students in resolving coding and submission-process issues.
 - Interfaced directly with customers as a lifeguard for 3 summers, 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.
- **Management**
 - As assistant manager at a pool, scheduled shift order, delegated and directed tasks, attended manager meetings, and reported to upper level management.
 - Lead student cohort as a Learning Assistant for Computer Organization, responsible for grading code-style.

WORK HISTORY

- **Learning Assistant**, UNC Computer Science Department, (August 2021 – May 2022)
- **Assistant Manager**, Swim Club Management Group, (SCMG), LLC, Asheville, NC (May 2020 – August 2020)
 - ±40 hrs/week, opened and closed frequently, including 5:30am shift.
- **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
- **Band member** (electric guitar, acoustic guitar, vocals, keyboard, bass)

VOLUNTEER WORK

- **Church music teams**: perform acoustic and electric guitar, bass, and vocals.
- **ABCCM**: soup kitchen volunteer.

REFERENCES AVAILABLE UPON REQUEST