

# William Berner

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## Education

### **The University of North Carolina at Chapel Hill**

*August 2020*

**Degree:** Computer Science B.S.

**Relevant Coursework:** Data Structures • Computer Organization • Digital Logic • Mobile Computing Systems • Algorithms and Analysis • Modern Web Programming • Internet Services and Protocols • Models of Languages and Computation • Software Engineering Lab

### **The University of North Carolina at Chapel Hill Full Stack Coding Bootcamp** *May 2021 - present*

Six month part-time coding class: MERN stack, Jest, Axios, MySQL, GraphQL, Heroku, etc

## Skills & Technologies

**Programming Languages:** Javascript • Typescript • Python • Java • SQL • C/C++ • Swift

**Other Skills:** Git • CLI • JIRA • Agile Methodology • jQuery • Node • NPM • Express • Sequelize • OOP • AJAX • JSON • Solids Modeling Software • Microsoft Office • Programming Instruction

## Projects

**Skilled Careers:** A semester-long, client-specified, Javascript web-based group project to assist individuals not following a traditional four-year university path in finding alternative education/certification.

- Vue.js • Firebase • Google Maps/Locations APIs • Static S3 Bucket • Photo Bucket via AWS
- <https://www.Skilled-Careers.com>

**Trailr:** A Javascript web-based movie searching application, built as a group project during UNC-CH's Full Stack Coding Bootcamp.

- Materialize • Moment.js • TMDb API • OMDb API • YouTube Data API • Streaming-availability API
- <https://willberner.github.io/Trailr/>

**Mousikal:** A Javascript web-based application for discussion and discovery of music, built as a group final project for the class Modern Web Programming. Not currently hosted.

- Vue.js • Node.js • Express.js • Axios • CRUD • Spotify API.

## Experience

### **Undergraduate Research Assistant: UNC Graphics and VR Group**

*April 2018 - August 2020*

- One of 2-3 undergrads who worked with Federico Gil Distinguished Prof. Henry Fuchs.
  - Designed and produced egocentric eyeglasses for 3D scene reconstruction.
  - Fabricated optical membranes in CHANL's cleanroom by various industrial methods.
  - Corrected a C++ white-balance filter for use with partner Ximmerse camera hardware.
  - Conducted luminance tests to determine the effect of multiple beamsplitters on an image.

### **Undergraduate Teaching Assistant: COMP116**

*May 2020 - July 2020*

- One of four hired by Professor Marc Neithammer to work with Instructor Tom Christy.
- Assisted with classes to help teach Python to solve various applied scientific problems.
- Graded/proctored assignments, answered student emails, held office hours.

### **Undergraduate Teaching Assistant: COMP110 & COMP101**

*January 2017 - August 2019*

- One of 15 hired from 120+ applicants by Professor Kris Jordan.
- Personally tutored Java and Typescript essentials to over 250 students on over 325 occasions.
- Graded and proctored tests and quizzes, answered student emails, helped run hackathons.