

Jacob A. Smith

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EDUCATION

The University of North Carolina at Chapel Hill

GPA: 3.95

May 2021

Honors Carolina, Dean's List 2017 – present

- Bachelor of Science in Computer Science
- Minor in Statistics and Analytics and Cognitive Science

PROJECTS

VEGA Guided Web Chrome Extension

- Designed and implemented a chrome extension in Javascript to allow a user to record a web interaction
- Deployed a Java backend for other users to access a web integrated tutorial
- Won best project at a symposium as judged by UNC CS Director of Undergraduate Studies

Student Alcohol Neural Net Analysis

- Created a neural net in R to predict student grades based on alcohol consumption with a RMSE of 1.66
- Collaborated in a team for data visualizations and neural net using tidyverse/ggplot2 in R

RateMyProfessors.com Web Scraper

- Coded an automated python scraper to make an improved professor database from RateMyProfessors

EXPERIENCE

Capital One

June 2020 — August 2020

Software Engineering Intern

- Developed first Multiplatform (iOS and Android) API for Capital One using Kotlin Multiplatform
- Created website with tutorials, benefits/drawbacks, and value proposition for Capital One
- Simplified the process of using Multiplatform for new engineers into a easy to follow guide

Augmented Reality Research

May 2019 — August 2019

Undergraduate Research Assistant, Department of Computer Science, UNC-CH

- Built a version of the open source Project North Star AR headset
- Implemented 6 degrees of freedom and Leap Motion hand tracking with my partner

ResNET, UNC ITS

August 2018 — present

eSports Computing Consultant

- Troubleshoot networking, software, and a variety of other technical problems
- Organize virtual reality experiences, tech fairs, and eSports events
- Problem solve technical issues in a dynamic environment adhering to a 2 hour service level agreement

Learning Assistant

August 2018 — May 2019

Undergraduate Learning Assistant, Department of Computer Science, UNC-CH

- Tutored in object-oriented principles and computer design in office hours for more than 100 students
- Debugged student code and implemented best practices

Students for the Exploration of Deep Space

August 2017 — March 2019

Technical Project Mentor

- Led a small team that fabricated a quadcopter drone with an assisted flight algorithm
- Debugged an error that caused the quadcopter to flip violently due to a feedback loop from the gyroscope

Scalable Learning Research

September 2017 — May 2018

Undergraduate Research Assistant, Department of Computer Science, UNC-CH

- Developed method for scalable learning to democratize access to information
- Designed a web extension to curate guided and dynamic educational experiences

SKILLS

Python | Java | Kotlin | JavaScript | C | C# | HTML/CSS | Arduino

- Firm grasp of Algorithms, Data Structures, Object Oriented Principles, Unit Testing, Agile Development, Git
- Proficient in Spanish