NATHAN SCHNEIDER

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EDUCATION

Dartmouth College, Hanover, NH   **June 2022**
Bachelor of Arts, Major in Computer Science   **GPA 3.74**
Relevant Coursework: Software Design, Algorithms, Machine Learning, Artificial Intelligence.   **Major GPA 3.83**
Honors/Awards: Citation for Academic Excellence in Intro. CS, OOP, Machine Learning
Activities: Dartmouth Climbing Team Leader, Dartmouth Mountaineering Club

PROJECT EXPERIENCE

Squirrel-Cam Bird Feeder Defense System   **June 2020 – Present**
- Integrated Near-Infrared (NIR) spotlight and NIR camera system to surveil bird feeders at all times
- Utilized Tensorflow object recognition models to differentiate birds and squirrels on the feeders
- Designed Python code on a Raspberry Pi to control irrigation valves to spray detected squirrels

Moonboard™ Difficulty Classification Neural Networks   **September 2019**
- Retrieved and cleaned community climbing route data from Moonboard™, climbing wall manufacturer
- Trained and tested deep neural networks to predict climbing route difficulty based on holds available
- Experimented with data weights to avoid erroneous classifications due to overrepresented data

WORK EXPERIENCE

DALI Lab, Hanover, NH   **December 2019 – Present**
Full-Stack Software Engineer
- Collaborated with an interdisciplinary Agile team to design, develop, and deploy web apps
- Engaged in 18+ hour work weeks on DALI Lab projects while maintaining full course load
- Implemented multiple tech stacks dependent on project needs
- Contributed to many diverse projects over multiple terms
  - Project Pine Beetle – a web platform to visualize and predict outbreaks of Southern Pine Beetle
  - GoPhish – an education tool to teach users to identify and prevent phishing attacks
  - SLAR – Sign Language Augmented Reality game to teach finger spelling
  - Vox Daily – Modernization of campus email news system

Cognitive Science Department at Dartmouth College, Hanover, NH   **March – May 2019, November 2020**
Full Stack Software Engineer
- Using Node.js, jsPsych, MySQL, developed and deployed a secure web platform for psychological surveys
- Implemented configurable architecture, so non-coder researchers are able to edit study-specific parameters

Laboratory for Atmospheric and Space Physics, Boulder, CO   **June 2019 – September 2019**
Data Science Intern
- Using Python and LabVIEW, designed and implemented a database analysis tool for accelerator functionality
- Provided curated graphics and metrics for novel insights on both live and historical data
- Iteratively improved user interface and capabilities based on projected user needs

SKILLS

Programming Languages: Python, JavaScript, C, Bash, Java, Arduino
Web Development: React.js, Node.js, Redux.js, Ruby on Rails, SQL, MongoDB, Heroku, Netlify, Insomnia
Office: Git, Slack, Github, Zoom, Zenhub, Google Drive, Microsoft Office
Other: Strong communication skills, Interdisciplinary team experience, Diverse mathematics background