

Vinay Bhaip

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github.com/vbhaip

EDUCATION

- **University of Virginia** Charlottesville, VA
Computer Science Aug 2020 – 2023
 - **Activities:** Echols Scholar (Top 5% in college), Jefferson Society, Solar Car, Computer and Network Security.
- **Thomas Jefferson High School for Science and Technology** Alexandria, VA
Computer Systems Research; GPA: 4.5 Sep 2016 – Jun 2020
 - **Relevant Coursework:** AP Computer Science + Data Structures, Artificial Intelligence, Parallel Computing, Web Development, Mobile Development, Computer Vision, AP Physics.

EXPERIENCE

- **HHMI's Janelia Research Campus** Ashburn, VA
Jayaraman Lab Intern; Looger Lab Intern Jun 2019 - Aug 2020
 - **Behavior Analysis:** Trained machine learning model on extracted features to classify fly gap crossing attempts. Second Place in Virginia Science Fair.
 - **Protein Synthesis:** Developed machine learning models to construct calcium indicators on neural activity.
- **Phone2Action** Rosslyn, VA
Civic Tech Engineering Fellow Jun 2018 - Aug 2018
 - **Facebook Messenger Bot:** Expanded on winning hackathon project working on a chatbot to connect users to local politicians using natural language processing.

ACCOMPLISHMENTS

- **Apple FCU Scholar:** Selected from hundreds of applicants for academic performance and community service.
- **2x AIME Qualifier:** Qualified by being in top 5% in nation for American Invitation Mathematics Examination.
- **HackTJ 2019:** Developed parser to turn physical coding blocks into runnable code using Computer Vision. Won Best Design Award.
- **HackTJ 2017:** Created an online platform teaching students to learn how to code, which incorporated a forum space, a tool that troubleshoots code by scraping data online, and an API for basic programming. Received Overall Best Beginner Application, 3rd place for Palantir Social Impact Award, and top 10 Big Parser API Usage.

LEADERSHIP

- **TJ Machine Learning Club**
Captain, Teaching Coordinator Sep 2018 – May 2020
 - **Lecturing:** Taught machine learning algorithms in theory and in practice to nearly sixty students every week.
- **TJ Lincoln-Douglas Debate Team**
Captain, Teaching Coordinator Sep 2018 – May 2020
 - **Lecturing:** Taught debate and philosophies while managing logistics of club.
 - **Volunteering:** Co-taught thirty students about fundamentals in debate at Eagle Ridge Middle School.
- **Summit For Future Innovators**
Co-founder Oct 2018
 - **Organizing:** Planned and ran day-long event for middle schoolers to engage in interactive workshops in physics, aeronautics, chemistry, robotics, and programming.

PROGRAMMING

- **Languages:** Python, Javascript, Java, C, C++, HTML, CSS.
- **Libraries:** Keras, Scikit-learn, TensorFlow, NumPy, OpenCV.
- **Technologies:** Linux, Bash, Git, Flask, Firebase, Heroku.