

Jack Perkins

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EDUCATION

The University of Texas at Austin , Austin, TX	May, 2025
<i>Bachelor of Science, Computer Science</i>	
GPA: 3.6 / 4.00	
Relevant Coursework: <i>Data Structures, Operating Systems, Computer Architecture, Discrete Math</i>	
The Woodlands High School , The Woodlands, TX	May, 2021
GPA: 5.32 / 6.00	
Class Rank: 4 / 1016	

SKILLS

Technical/Computer Skills: Java, Python, C, Bash, HTML, CSS, Swift, SQL, Node.JS, JavaScript, Ansible, OpenCV, Tensorflow, Tkinter, Sklearn, Red Hat Linux, Ubuntu Linux, Gitlab, CI/CD

EXPERIENCE

Texas Convergent - Forge Nonprofits , Austin TX	January 2023 - Current
<i>Software Engineer</i>	
<ul style="list-style-type: none">Engages directly with local non-profit Meals-on-Wheels to build full-stack applicationsUtilized Firebase SDK to host the production React Native application and provide user authentication	
EcoCAR EV Challenge , Austin TX	January 2023 - Current
<i>Connected and Automated Vehicle Team Member</i>	
<ul style="list-style-type: none">Developed Computer Vision algorithms to detect lanes and other obstacles by synthesizing sensor dataResearched and implemented Advanced Driver Automation Systems (ADAS) to improve vehicle safety	
Applied Research Laboratories , Austin, TX	May 2022- August 2022
<i>Software Engineering Intern</i>	
<ul style="list-style-type: none">Led the software development of a novel Unmanned Underwater Vehicle (UUV) sound controller and sound controller User InterfaceIntegrated novel, Python-based UUV sound controller application with existing Linux-based UUV system architecture	
University of Texas at Austin - Bioinformatics Lab , Austin, TX	January 2022 - June 2022
<i>Student Researcher</i>	
<ul style="list-style-type: none">Utilized Python to classify genes, create visualizations, and find relevant gene pathways for Covid severity.Created a pipeline for Multiple Myeloma cell line data to generate visualizations and to identify Copy Number VariationsApplied statistical analyses of genes to determine differential gene expression.	

PROJECTS

CityScoop
<ul style="list-style-type: none">Developed a AWS hosted React application to provide a comprehensive travel guide for travellersUtilized dynamic API calls from three different APIs to generate data for different citiesImplemented Flask and MySQL for the application backend and database.
Point-Manager for School Organizations
<ul style="list-style-type: none">Created a point-manager using Python for clubs to accurately keep track of member statistics and engagement.Incorporated a Graphical User Interface and notification system to automatically send emails to club members.Made point-keeping work less tedious and time-intensive for club secretaries

LEADERSHIP & COMMUNITY INVOLVEMENT

Montgomery County Food Bank , The Woodlands, Texas
July 2020 - August 2020
<i>Food Drive Founder</i>
<ul style="list-style-type: none">Led a team to hand out flyers in local neighborhoods to help raise money and food during COVID-19 shortages.Raised over 10,000 pounds of food and 10,000 dollars with our partnership with other local food drives.