Franklin Hu

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EDUCATION

Vanderbilt University, Nashville, TN   **May 2026**
Bachelor of Science, Computer Science and Applied Mathematics, Minor in Business   **GPA: 3.85**

RELEVANT COURSEWORK & TECHNICAL SKILLS

Courses: Computer Programming in Java and Python, Program Design and Data Structures, Discrete Structures, Digital Systems, Intermediate Software Design, Linear Algebra, Differential Equations, Statistics and Probability
Coding Languages/Frameworks: C++, Python, Java, SQL, HTML, CSS, JavaScript, Git, PyTorch, TensorFlow

LEADERSHIP & PROFESSIONAL DEVELOPMENT

HRLB Lab - Vanderbilt Institute for Surgery and Engineering   April 2023 – Present
Undergraduate Researcher : https://hrlblab.github.io
- Utilize PyTorch and TensorFlow packages to segment instances of microvascular structures from healthy human whole slide images in renal pathology.
- Submit seven-page conference paper for review to 2024 SPIE Medical Imaging conference as co-first author

VandyHacks   Feb 2023 – Present
Director of Operations
- Manage a cross-functional team of six, promoting diversity and high-performance collaboration
- Organize VandyHacks Mentorship Program, fostering skill exchange and growth
- Coordinate logistics of VandyHacks X (meals, transportation, merch and prize ordering, room booking/setup etc.)
- Collaborate with ten-member leadership team, driving annual goal achievement

Google Developer Student Club   Aug 2023 – Present
Lead (23-24 academic year); Event Coordinator (22-23 academic year);
- Lead a seven-member team in overseeing operations of the GDSC chapter at Vanderbilt University
- Conduct and facilitate workshops covering HTML, CSS, JS, and Firebase technologies
- Coordinate panel discussions and diverse events focused on Google's tech offerings
- Developed web application front-end using React.js for the Google Solution Challenge

Veridt, Inc.   Jul 2022 – Aug 2022
Engineering Intern
- Collaborated with a team of engineers to program, assemble and test electronic keypad products' firmware
- Handle and process order fulfillment from initial parts to final packaging and shipping

Next Chapter Academic Tutoring   Jun 2021 – Aug 2021
Director of Operations and Technology
- Design, develop and deploy organization website (https://www.nextchapteracademictutoring.org/)
- Deliver integration with 3p scheduling and notification system
- Optimize non-profit tutoring service SOPs for tutor acquisition and work progress updates
- Coordinate fundraising events for operation expansion and new facility operationalization

PROJECTS

Renal microvasculature deep learning instance segmentation model
- Python based deep learning model with refined model architecture able to make pathological research more efficient
- Utilize multi-site multi-scale data in training for more robust results
- Able to segment microvascular structures from 2D-PAS stain images with a Dice score of 82.30

Personal Website
- Utilize HTML, CSS, JS and Bootstrap to create personal resume website
- Employ Netlify to deploy website to web servers