Liwen Tran

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EDUCATION

Johns Hopkins University, Baltimore, MD   May 2025
– BS, Computer Engineering

Northwest High School, Germantown, MD   Jun 2021
– GPA: 4.00/4.00 | 4.78/5.00

EXPERIENCE

Montgomery County Government

Recreation Department Tech Intern   Jul 2021 – Aug 2021
– Created and taught the curriculum for classes of up to 25 seniors about the internet and technology.
– Empowered older adults by training them about devices and resolving their technical issues.
– Designed flyers using Photoshop and Illustrator and translated information from English to Chinese.

Senior Planet Montgomery: Tech Support   Jun 2020 – Nov 2020
– Setup and run a tech support program for seniors, serving 8,804 people in the first three quarters.
– Increased internet connectivity in rural and low-income households efficiently by analyzing census demographic data and broadband survey data to target high-impact areas.
– Won the 2021 [National Association of Counties Award](#) in Information Technology and Parks and Rec.

CFR Engineering Consultants, Inc   Sep 2020 – July 2021
Electrical Engineer Intern
– Collaboratively designed electrical distribution and lighting systems for new and renovation construction projects using Revit and AutoCAD. Also performed load calculations.
– Constructed flexible 3-D models of electrical components for Building Information Modeling to increase consistency and reduce review time.
– Built a [database management system](#) with Access, coding in VBA and SQL, for 2000+ projects.
– Used Microsoft PowerBI to create a dashboard to display the hours of each team to help decide how projects and work should be distributed.

University of Maryland, MIND Lab: Building Analytics   Mar 2021 – July 2021
– Collaboratively optimized energy and building functionality by modeling data from building sensors and actuators with pandas to find relationships between variables.
– Assembled notes for the team after listening to expert guest speakers.

PROJECTS

[inJourna](#): ML-based Mental Health Improvement App for Inpatients   Sep 2021
– Placed "Runner Up" and won the "Most Innovative Venture Award" at HopHacks (184 participants)
– Designed the UI in Figma, devised the branding (visual identity, consistent theme, and logo), and built an engaging landing page for the product.

FIRST Tech Robotics Programming Team Lead   Sep 2017 – Jan 2021
– Programmed with Java in Android Studio, implementing computer vision for object recognition with OpenCV to automate movement and PID controllers to improve accuracy and precision.
– Created custom parts optimized for the challenges in SolidWorks to be 3D printed.
– Led a team of 15 members to complete a yearly challenge and oversaw the programming activities.

SKILLS

Languages: Java, C, C++, Python

Tools: SolidWorks, Revit, AutoCAD, Git, Android Studio, Adobe Suite (Photoshop, Lightroom, Premiere Pro, Illustrator, Adobe XD), Figma, PowerBI, Excel (MS Suite)

Other: Mandarin Chinese, Photography, Video Editing