Tyler Lin

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Education

- **Georgia Institute of Technology** — Atlanta, GA
  Intended B.S./M.S. in Computer Science — *August 2021 – Present*
  - **Coursework:** Data Structures & Algorithms, Linear Algebra, Grand Challenges L.L.C.
- **Centennial High School** — Ellicott City, MD
  GPA: 4.83 / 4.00 — *Aug. 2017 – May 2021*
  - **Coursework:** Object Oriented Design, Statistics, Multivariable Calculus, Differential Equations
  - **Extracurriculars:** Math Journal (Editor-in-Chief), Coding Club (President), Science National Honor Society (Coordinator), Varsity Tennis (Captain)

Experience

- **The Johns Hopkins University Applied Physics Lab (APL)** — Laurel, MD
  Intern — *Sep. 2019 – August 2021*
  - Developed a needle exchange system that queries providers to create a centralized status dashboard
  - Engineered and presented a prototype blockchain-based patient electronic health record
- **Howard EcoWorks** — Howard County, MD
  READY Crew Member — *Jun. 2019 – Aug. 2019*
  - Worked with crew to plan, construct, and maintain rain gardens and conservation landscapes
  - Engaged in other environmental work such as invasive species removal and electrofishing

Major Projects

Attendance for Google Meet™ A Google Chrome extension that streamlines the process of taking virtual attendance. Integrates directly within Google Meet and allows users to export data to Google Sheets. Used by over 30,000 teachers from more than 80 countries.

Medical Record Blockchain A proof-of-concept distributed ledger database implemented with Hyperledger Fabric that stores patient medication and immunization history. Created for Johns Hopkins APL to assess the feasibility of blockchain as a basis for secure and accessible health records.

The Puzzled Cube A puzzle platformer game made in Java that features dozens of levels and a dynamic global leaderboard. Winner of the 2021 MDFBLA Computer Game and Simulation Programming Competition.

Skills

Programming Languages: Java, C#, HTML, CSS, JavaScript, Dart, LaTeX

Utilities: Git, GitHub, Bash, Node.js, Unity, Hyperledger Fabric

Other: Certified Chesapeake Bay Landscape Professional Apprentice (CBLP-A); possess professional skills and knowledge in sustainable landscape design, installation, and maintenance.

Awards and Achievements

- Winner, 2021 Maryland FBLA Computer Game and Simulation Programming Competition
- 1st Place (out of 211), 2020 HackDefy Hackathon
- Winner, 2020 Regional FBLA Sports and Entertainment Management Competition
- T-13th Place in World (out of 1473), 2020 ARML
- 2nd Place (out of 339), 2019 Same Home Different Hacks Hackathon
- 1st Place, 2017 Maryland Society of Educational Technology Student Contest