HENRY MAYER

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EDUCATION

Carnegie Mellon University *2023-2027*
Incoming Computer Engineering Student *GPA: N/A*

Purdue University *January 2022 - August 2023*
Non-degree Seeking Student, Computer Science *GPA: 3.88/4.0*
Courses: Discrete Math, C Programming, Computer Architecture, Software Engineering, Multivariate Calculus, & Data Structures and Algorithms (In Progress)

West Lafayette Jr/Sr High School *August 2019 - May 2023*
Academic Honors Diploma *GPA: 3.70/4.0*

LEADERSHIP & TECHNICAL EXPERIENCE

Mayer Studios May 2018 - Present
Co-Founder & Co-President *Global*

- Mayer Studios is an online software company with $30,000 in revenue and 8000+ customers in 90+ countries
- Co-founded Mayer Studios while in was in Middle School
- Created tested the majority of the company's software base
- Used data and interactions with clients to inform the strategic development of new products and services
- Managed purchasing and finances for the business

BoilerTime January 2023 - Present
Algorithms Engineer *West Lafayette, IN*

- BoilerTime is a data-driven class schedule optimizer for students at Purdue University that considers factors such as professor ratings, GPA, and time of day preferences to generate schedules
- Implemented agile methodologies, and served as the Scrum Master, reporting progress to the project's stakeholders
- Designed and developed the entirety of the optimization algorithm in Java and implemented with the surrounding Web UI
- Developed software to acquire data and to drive API routes for login and schedule data

SELECTED PROJECTS

Maps Collection, by Mayer Studios *2019 - Present*
Developed the maps collection, which uses Google Maps to present information about NearBy attractions and travel times to places of interest on FitbitOS smartwatches

A Computerized Simulation of Behavior of Ideal Gasses as they Appraoch Equilibrium *2021*
Used NumPy and PANDAS to display a cluster of particles and demonstrate their predict their actions via Newtonian motion

7400-Series & Arduino Projects *2021 - Present*
Used discrete logic gates and 7400-series ICs to build an Arithmetic & Logic Unit and traffic-light controller. Created numerous Arduino projects including a weather station an radio-entropy based true random number generator

TECHNICAL STRENGTHS

Programming Languages	C/C++, Java, JavaScript, Python, HTML/CSS, & Assembly (AArch and x86)
Tools + Frameworks	VIM, Bash, Git/GitHub, Linux CLI, Microsoft Office, & LaTeX