# Jacob Dill | Computer Science | QPA: 3.2
## Carnegie Mellon University '22 | Sophomore

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## Professional Experience

**Lockheed Martin Sikorsky IT — Stratford, CT**

- <u>Application Support (Summer 2018)</u>:
  – Implemented a Python-to-Perl interface utilizing the SSH protocol into my team's application test environment. Accelerated intern training period (most new interns knew Python, not Perl)
  – Collaborated with another team of other interns to upgrade the technology in the conference room. Increased conference room utilization and more than halved reservation conflicts
- <u>Team Site Maintenance (Summer 2017)</u>:
  – Developed, maintained, and documented the team site used the storage, accessibility, and distribution of project information. This site continued to be used into my second year.
  – Replaced decades-old data storage system using Unix terminal with Microsoft SharePoint site.

## Projects

**Build18 Hackathon – *Pæthos VR* (2020)** ☊

- An Oculus Quest VR experience that interacts with an EEG band to create a virtual reality experience in response to user brainwaves [*JavaScript, A-Frame, Blender*]
- Communicates encoded brain wave data over Bluetooth to a web server, from which the Oculus receives its display.

**Minecraft Forge – *Endgame Mod* (2020)** ☊

- A mod utilizing Forge to rebalance the primary mechanics of the official Minecraft release and to add more gameplay features to the End dimension [*Java, JSON, Blender, Adobe Suite, Eclipse IDE*]
- Self-taught myself the newest Forge Library through outdated documentation and online forums

**Hack This Help Kids – *Meda* (2019)** ☊

- A modern web portal through which medical patient information may transferred from one healthcare provider to another. Won "Best Use of Domain Award" for compatibility across web-platforms [*HTML, JavaScript, CSS*]

**MIT Blueprint Learnathon/Hackathon – *PhysSolver* (2018)**

- A mobile application that auto-completes common mechanical and electrical physics equations used in secondary educational environments [*Swift, iOS*]

**Amity High School Computer Science Club President (2018)**

- Competed in Lockheed Martin's Annual CodeQuest international coding competition through which I acquired an internship [*Java, Eclipse IDE*]

## Organizations

**Carnegie Mellon University Senate (2019-20)**

- <u>Communications Committee</u>: Undergraduate Senate Website Overhaul
- [*HTML, CSS, JavaScript*]

**Game Creation Society (2019-20)**

- <u>SMEDex</u>: Planetary Resource Management Game
- [*Unity, C#, Object-Oriented Programming, JavaScript, JSON*]

## Skills

**Code:** Java, Python, C#, C, HTML, CSS, JavaScript, JSON, SML, Perl, Swift

**Software:** Unity, Adobe Suite, Microsoft Office, Blender, A-Frame, Eclipse IDE

**Operating Systems:** macOS, Windows (7, 8.x, 10), Linux, Unix, iOS

## Coursework

15-210: Parallel and Sequential Data Structures and Algorithms [*SML, Unix*]
15-213: Intro to Computer Systems [*C, Unix*]
76-270: Writing for the Professions [*Microsoft Office, Adobe Suite*]