Luke Arnold

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**EDUCATION**

**Northwestern University (BS in Computer Science and Theatre)** *Class of 2023*

* **GPA: 3.9**
* **Relevant Coursework:** Multivariable Differential and Integral Calculus, Data Structures & Algorithms, AI for Hybrid Participatory Narrative, Human Computer Interaction

**Menlo School, Atherton, CA** *Class of 2019*

* **GPA: 4.1**
* **Relevant Coursework:** AP Computer Science, AP Calculus BC, Advanced Topics Math, Applied Science Research, Advanced Topics Computer Science

**Languages:** Python, C/C++, Java

**WORK EXPERIENCE**

**D&D Adventures** *Founder Summer 2020 - Present*

* Led online Dungeons and Dragons sessions for children and young adults
* Created and refined pricing options and session structure based on client feedback
* Created detailed, customized adventures to provide a unique experience for each client

**Camp Galileo** *Counselor Summer 2019*

* Led groups of twenty 5-year-olds through daily activities
* Worked with kids aged 5-12 to foster an interest in STEM

**VillageTech Solutions** *Programmer Summer 2018*

* Improved text-to-speech functionality for bilingual education web server in php
* Streamlined file management system to remove redundant memory use

**TECHNICAL PROJECTS**

* Endless arcade-style shoot ‘em up game in C++
* Autonomous music-creation tool via Markov Chain analysis of MIDIs in Python
* Interactive visualization map for localized crime reports in Python
* Functional location-independent real-time communication system for measuring atmospheric conditions at altitudes of 100,000ft with Arduino
* Integrated electric guitar amplifier with custom pickups

**OTHER EXPERIENCE**

**Member and Show Producer,** Freshman 15 A-Cappella *Fall 2019 - Present*

**Vertigo Theatre Board,** Co-Technical Director *Summer 2020 - Present*

**Vertigo Reading Series,** Sound Designer *Winter 2020*

**78th Annual Dolphin Show,** Co-Technical Director *Spring 2021*

**LEADERSHIP**

**Junior Class President** *April 2017 - April 2018*

**Menlo School Mock Trial,** *Attorney* *September 2017 - May 2019*

* Worked collaboratively to develop, execute, and adapt trial strategy
* Won CRF California State Championship

**INTERESTS**

Singing, Guitar, Software Programming, Video Essays, Hex, Reading Fantasy Novels