David Zeng

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**Objective:**

Software development intern in a company concerning game, internet or AI

**Education:**

Bellevue High School in Bellevue, WA (2019 – present)

* Class of 2023, gifted program
* Unweighted GPA 3.93, 9 AP classes including the following:
  + AP Computer Science A—5
  + AP Physics 1—5
  + AP Physics 2—currently taking

**Experiences:**

Course Project: Buddy2.0 (October 2021-now)

* A game where the player chats with a murderous chatbot named Buddy2.0
* Buddy uses natural language processing to classify what the player is saying and progress the game accordingly
  + The game progresses in a dialogue tree structure
  + There are no limitations on what the player can type
* A model used in the chatbot was trained using Tensor Flow and over 60,000 online movie reviews.
  + Used the Tensor Flow Lite Model Maker package from Github https://github.com/tensorflow/examples/tree/master/tensorflow\_examples/lite/model\_maker

Independent Project: Indie Platformer (September 2019-now)

* A platformer where the player overcomes obstacles by controlling a character who has the ability to turn into a bouncing ball along with a companion who is capable of turning into a bird and slowing the player’s fall.
  + The game currently has four chapters, with eight planned. Each chapter has its own unique mechanics.
* Companion is capable of following the player around in a natural fashion while avoiding obstacles.
  + Companion’s AI was created with a queue which records the player’s actions as a base along with smart handling of edge cases.
* Learnt music, art, and level design
  + All music and art were created from scratch

AP Physics Tutor (October 2021-January 2022)

* Tutored a Junior in AP Physics 1 every Thursday

Certifications

* Database Administration Fundamentals—Microsoft Technology Associates
* Introduction to Programming using Java—Microsoft Technology Associates

**Extracurriculars**

Speech Lead of the Bellevue High School Speech and Debate (2020-now)

* Qualified for State in my Freshmen and Junior Year
* Instructed and trained teammates who have won events and went to State

Member of Bellevue High School Cross Country and Track (2019-now)

* Member of Varsity
* Sub 5:00 mile and sub 17:50 5 Kilometers

**Skills:**

* Programming languages: HTML, Java, SQL and Python
* Experienced user of multiple IDEs: Visual Studio, Visual Studio Code, Eclipse and Android Studio
* Machine Learning Framework: TensorFlow
* Fluent in Mandarin