CHENDUR JAYAVELU

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EDUCATION

University of Washington *Expected Graduation Date*: Dec 2025
Bachelor of Science in Computer Science, 3.93 GPA
- Relevant Coursework: Data Structures, Algorithms, Discrete Math, Probability & Statistics, Linear Algebra

TECHNICAL SKILLS

Languages: Java, Python, Lua, Dart, JavaScript
Developer Tools: Git, GitHub, VS Code, PyCharm, IntelliJ, Eclipse, Roblox Studio, Jupyter Notebook, Android Studio
Libraries: Pandas, NumPy, Matplotlib, SciPy, Scikit-Learn, LangChain, PyAudio

EXPERIENCE

CSEED Buildspace, Cohort 0 Jan. 2024 – Present
UW CSEED *Seattle, WA*
- Built ACT math tutoring TikTok account with more than **2 million views** & **4000+ followers** during 6-week incubator.
- Learned **JavaScript** and web development frameworks to build a website for an upcoming self-owned freelance tutoring business.

Tech Team Member and Tutor Jan. 2024 – Present
Cascade Enrichment *Remote*
- Programmed **interactive online assessments** that sends instant feedback to email on what areas to improve, now used as a diagnostics test for elementary students to see what topics they need tutoring for.
- Tutoring students with AP Computer Science A, AP Statistics, AP Calculus, and AP Physics.

Code Mentor Aug. 2021 – Present
Mighty Coders *Bothell, WA*
- Taught **50+ kids** coding (**Python, Java, JavaScript, Lua**) from **programming fundamentals** to **data structures** (lists, stacks, queues, trees) to kids aged 7 - 14.
- Developed **100+ Google Slides** of **Java** curriculum for teaching Java for middle school students.
- Taught applications for game development using Roblox Studio, Minecraft Java Edition, and Code Combat.

PROJECTS

Project Cultural Awarness Jul 2024
Python (LangChain, OctoAI, PyAudio)
- Created a chat application where users chat with **AI bots** of different ages and cultures.
- Utilized **LangChain** framework to build an **LLM**, processing user input and displaying output based on bot's age and culture.
- Incorporated **PyAudio** library so that users can speak to the AI bot of their choice.
- Integrated **Stable Diffusion 3** AI image generation tool from **OctoAI** to generate images from the AI bot's output.
- Won **1st place** with this project at the **Open Source for AI Hackathon** at the **Microsoft Reactor**

Physical & Demographic Factors Impacting Breast Cancer Diagnosis Apr 2023 – Jun 2023
Python (Pandas, SciPy, Scikit-Learn)
- Gathered **data** of physical factors of tumors (tumor size, density of clumping, etc.) and demographics of breast cancer patients (age, marital status, race).
- Conducted **statistical analysis** (confidence intervals, hypothesis testing, linear regression) of data to find correlation of such factors and breast cancer diagnosis using the **scipy.stats** library from **Python**.
- Built **ML model** with the **RandomForestClassifier** from **sklearn** to predict breast cancer diagnosis from those factors.

FBLA Data Analysis: WidgetCo Dec 2022 – Jul 2023
Python (Pandas, Geopandas, Matplotlib)
- Analyzed macroeconomic factors (population, GDP per capita, inflation, etc.) of China, France, Canada, and the US with **visualizations** created with Google Sheets & the **geopandas** library from **Python**.
- Made economic recommendations for where fictional company WidgetCo should conduct business based on analysis.