

# Ansh Chaurasia

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## SUMMARY

- More than five years of AI and Machine Learning product development and research.
- Experienced in developing software using C, C++, Java, JS, Python, and many more.

## EDUCATION

- **UC Berkeley College of Engineering : BS: Electrical Engineering and Computer Science (Starting Fall 2022, expected graduation in 2025)**
- **Associate's Degree in Science: Computer Science, De Anza College | Graduation: August 2022 |GPA: 4.0 UW)**  
**Coursework:** Beginning Programming C++, Intermediate C++, Python Programming, Web Page Development, Data Structures and Abstractions, Physics E&M, Multivariable Calculus, Differential Equations, Linear Algebra,, x86 Processor Assembly Language and Computer Architecture, Discrete Mathematics,
- **Senior | Monta Vista High School| Graduation: May 2022 |GPA: 3.96/4.0 UW)**  
**Coursework (9<sup>TH</sup> to 12<sup>th</sup>) :** Biology, Java, AP Computer Science Principal, AP Computer Science A, AP Physics 1, AP Physics 2, Spanish 4 (Honors), AP Spanish, AP Macroeconomics, AP Microeconomics, American Literature (Honors) , AP Calculus BC, AP Physics C Mechanics, AP Physics C E&M, AP Statistics, AP Government and Politics, AP Chemistry (Total AP Classes: 13)

## CERTIFICATIONS

### Certified Google TensorFlow Developer

February 2021 - Present

Took Google's rigorous TensorFlow Developer Certification exam in order to validate my proficiency in building effective AI models using TensorFlow 2.0. Tested on building networks for Computer Vision (CV), Natural Language Processing (NLP), and Forecasting Time Series. Became a part of Google's TensorFlow Developer Network. Prepared by taking the following courses on Coursera.org

- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning
- Convolutional Neural Networks in TensorFlow
- Natural Language Processing in TensorFlow
- Sequences, Time Series, and Prediction

## OTHER SKILLS

**Programming Languages:** Java, C, C++, Python, Assembly, JavaScript, HTML, CSS, Node.js

**Tools:** GitLab, GitHub, Docker, PyTorch, TensorFlow, MongoDB, Express.js, React.js Node.js, Adobe Figma, Photoshop, MatLab

**Hardware :** Multimeter, Emulator, Debugger

**Embedded System:** Microcontroller, Raspberry Pi

**Code and Projects on GitHub:** <https://github.com/AnshKetchum>

## JOB EXPERIENCE

### **GAMELORE Inc**

#### **Intern**

**June 2017 – July 2021**

Utilized TensorFlow 2.0 to contribute to an Artificial Intelligence (AI) based product automate Sports (tennis), Dance, Yoga, and Physiotherapy coaching. Developed ball detection algorithms in C++ and patented the technology

• **Patent ( #10803598) : Ball Detection and tracking device, system and method**

### **Demand Matrix**

#### **Software Intern**

**July 2020 – Dec 2020**

Assisted in testing and improving AI algorithms for data mining platforms in Python. Developed search algorithms to predict which products and services customers would be interested in given their current shopping list. Combined traditional algorithms like DFS and BFS with ML models written in TensorFlow 2.0.

### **Together We Shine ( 501(c3) Non-Profit Organization) Co-Founder**

**July 2020 - Present**

Developed and launched a website for our organization. Led and coordinated STEM classes on Artificial Intelligence, Biology, and Mathematics. Tutored students on how AI concepts are relevant to the math around them.

## RESEARCH EXPERIENCE

### **Stanford Research Intern**

**June 2020-Sept 2020**

Worked under Stanford Ph.D. student Mr. Jeremy Irvin on researching medical AI (Artificial Intelligence) technologies for “Noninvasive Diagnostic Technique for the Detection of Skin Cancers”. Utilized PyTorch to develop models that could accurately diagnose the presence of melanoma in patients.

- National Honorable Mention for Visionary Technology in Toshiba NSTA ExploraVision Science Fair
- Bruce Kawanami Engineering Award in Synopsys Science Fair
- Published Research Paper in the Journal of Student Research:  
<https://jsr.org/preprints/harp/preprint/view/20>

### **Aspiring Scientists Internship (George Mason University) Research Intern**

**June 2021-Aug 2021**

Assisted in research at the DevX Lab on daily software developer challenges and developed tools to drastically improve software debugging.

- Developed potential prototypes that can identify software bugs based on programmer intent and recommend solutions
- Developed a curated dataset of common Web Developer bugs in the React.js language

## PERSONAL PROJECTS on GitHub

### **LightSpeed Attendance**

Developed a tool using Python that uses Optical Character Recognition to take attendance by screenshotting the participants list in Zoom. Tested and favored by local teachers during distance learning.

### **APCS Downloader**

Developed a tool using Java that automatically fetched assignments from my teacher’s website and downloaded them in local directories to speed up the assignment setup process for AP Computer Science A students.

## COMMUNITY SERVICE, CLUBS, AND LEADERSHIP

### **SILICON VALLEY YOUTH**

#### **Secretary, Java and Physics Instructor**

**AUG 2017-PRESENT**

Led service event organization, plan school-wide social events, and help connect students to meaningful causes. Co-organized summer camp, charity dinner held to raise money for American Cancer Society.

- Contributed over 300+ hours.

- Taught beginner and intermediate Java and Physics courses to middle- and high-school students.
- Created curriculum and lesson plans for Physics and Java.

**MONTA VISTA ARTIFICIAL INTELLIGENCE CLUB      Co-President      AUG 2018-PRESENT**  
 Designed curriculum, organized club meetings, delivered AI lectures, delegated club responsibilities to officers, and planned weekly meetings. Led the development of a deployable COVID-19 mask detector project that members could use.

**MONTA VISTA C++ CLUB      President      AUG 2018- PRESENT**  
 Organized computer science lectures, delegated club responsibilities to officers, and planned weekly meetings. Organized the hackathon along with other club members.

## **HONORS AND AWARDS**

- USA Computing Olympiad (USACO) Gold Contestant
- Google Code Jam Round 1 Qualifier (top 1000 out of 40,000)
- Google Kickstart Round A,C,D Qualifier (top 1000 out of 40,000)

## **Publications**

- Melanoma Diagnosis using Convolution Neural Networks  
<https://jsr.org/preprints/harp/preprint/view/20>

**Foreign Languages:** Hindi, Spanish, Mandarin (Limited Proficiency)