

JEFFREY DENG

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EDUCATION

University of Illinois at Urbana-Champaign *Expected graduation June 2025*

Champaign-Urbana, IL

- *Bachelor of Science in Mathematics*
- *Relevant Coursework:* Multivariate Calculus, Computer Science, Intro to Economics

Summer College Immersion Program at UCLA (SCIP) *Class of 2020*

Westwood, CA

- *Relevant Coursework:* Physics, Intro to Neuroscience

Engineering Summer Academy at Penn (ESAP) *Class of 2019*

Philadelphia, PA

- Presented a final capstone on a multiplayer project utilizing the Pygame Engine, MySQL, and the TCP-IP model
- *Relevant Coursework:* ESAP Computer Science (19su)

RELEVANT EXPERIENCES

William R. and Clarice V. Spurlock Museum at the University of Illinois

Urbana, IL

Backend Web Development Intern

Sept 2021 – Present

- Server-side coding using PHP scripts and REST api, troubleshooted museum hardware and software issues
- Develop rich, functional web content and create meaningful user experiences through the unique junctin of culture and technology

Titanium Robotics

San Marino, CA

Strategy Captain

Aug 2017 – Jun 2021

- Led and coached the drive team during regional competitions; Developed game plans on the field
- Developed autonomous programs for competition robots, researched and applied control algorithms such as PID

San Marino High School Math Team

San Marino, CA

President

Aug 2017 – Jun 2021

- Ran cabinet discussions and administered team meetings and study sessions
- Prepared the team for various competitions including *AMC*, *Bay Math League*, *Math Madness by Aretelabs*, etc

Chinese School of San Marino

San Marino, CA

Computer Science Instructor & Curriculum Staff

Aug 2017 – Jun 2021

- Designed course curriculum, conducted virtual coding classes for students from 6 to 12 years old based on their respective coding levels
- Published a website for the course at Chinese School of San Marino and made written tutorials and videos for students

California Institute of Technology

Pasadena, CA

Student Researcher

Oct 2019 – Jun 2020

- Studied the fundamental algorithms behind unsupervised learning and network theory under the Hassibi group
- Crowdsourced data on strawberry breeds classification and tested performance of different clustering algorithms via *Matlab*

Experienced Hackathon Organizer & Advocate

- **Outreach Director** of *TitanHacks*, LA's largest virtual high school hackathon to-date (2020), hosting 330+ attendees from 5+ countries with over \$7,000 in budget, designed the automated registration system used by students and staff and conducted outreach to student groups & local organizations to gather support
- **Co-Founder** of *San Marino Dev Club*, a 501(c)3 non-profit that hosts weekly school discussions on topics and mentored 40+ Pasadena-area students on topics including front-end development, machine learning, and competitive programming

SKILLS

Software/tools : Proficient in Git, Python, Java, HTML/CSS; Familiar with C, C++, Jupyter, CAD (Autodesk Inventor), PHP, Node.js

Languages: Proficient in Mandarin, English; Familiar with Spanish

Media: Proficient in Adobe Creative Suite (Photoshop, Premiere Pro, Audition), and iMovie