Shayan Ghosh

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Education

University of California, Berkeley   *Berkeley, CA*

B.A. IN COMPUTER SCIENCE AND DATA SCIENCE, GPA: 3.7   *May 2023*

- Minor in City and Regional Planning
- **Selected Coursework:** **CS 61A** The Structure and Interpretation of Computer Programs, **CS 61B** Data Structures, **CS 61C** Machine Structures, **CS 70** Discrete Math and Probability Theory, **DATA 8** Foundations of Data Science, **DATA 100** Principles and Techniques of Data Science

Skills

Languages	Python, Java, SQL, Scheme
Libraries/Frameworks	numpy, pyplot, pandas
Tools	git, GitHub, HTML, CSS, JupyterLab, LaTeX

Experience

Course Tutor   *Berkeley, CA*

DATA 8   *Aug. 2020 - Present*

- Lead small group tutoring sessions twice a week to reinforce students' understanding of data science concepts
- Hold weekly office hours to provide additional support to students
- Grade homeworks and projects
- Topics include Python programming, probability, hypothesis testing, linear regression, A/B testing, and classification

Academic Intern   *Berkeley, CA*

CS 61A, CS 61BL   *Jan. 2020 - Aug. 2020*

- **61A:** Supported students in office hours by explaining foundational computer science concepts
- Major topics included Data Abstraction, OOP, and programming paradigms
- **61BL:** Answered student questions during lab sections helping solidify their knowledge of data structures and programming methodologies
- Topics included Java, asymptotic analysis, trees, graphs, collections, searching and sorting algorithms, and hashing/load-balancing

Volunteer Lab Assistant   *Berkeley, CA*

DATA 8   *Jan. 2020 - May. 2020*

- Helped students apply data science techniques and python knowledge to complete lab exercises
- Major topics included least squares regression, A/B testing, and k-NN classification
- Was subsequently hired for a paid staff position as a tutor

Software Developer Intern   *Davis, CA*

ENNETIX   *Jun. 2018 - Sep. 2018*

- Worked with team developing xVisor network analytics platform
- Developed skills in Object-Oriented Design, version control, and iterative development utilizing SDLC

Club Founder and President   *Elk Grove, CA*

VEX ROBOTICS CLUB, COSUMNES OAKS HIGH SCHOOL   *Aug. 2017 - May. 2019*

- Led software and electrical teams to build semi-autonomous robots winning multiple regional tournaments over two years. Designed both software and hardware portions of the robots and managed task delegation, time management, and game strategy
- 1st place Yuba City (2018)
- 2nd place Sacramento Regional Tournament (2019)

Projects

Gitlet

- A simple Java implementation of the git version control system
- Used object-oriented design principles to implement a graph-structured file system
- Full suite of JUnit and integration tests
- Supports git operations such as branch, checkout, and merge, among others