Tamara Star Vilaythong

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Education

• University of California, Berkeley Bachelor of Arts, Computer Science GPA: 3.56 Expected Graduation 2021

Highlighted Projects - Email for Bitbucket repository

Personal Website (HTML & CSS): tamvilaythong.github.io

• Designed and developed personal website from scratch using HTML, CSS, JavaScript, jQuery, and Bootstrap Bear Maps (*Java*):

- Google Maps inspired web-based routing application. Implemented the back end for the mapping and routing of Berkeley by using existing front end and OpenStreetMap mapping data
- Developed map rastering, zoom functionality, and clicking for location selection
- Used a SAX parser with an OSM XML data file to build a graph representation of the Berkeley area, and applied
 A* algorithm with the graph representation to implement shortest-path routing

2D Tile Game (Java):

- Designed and developed two-player keyboard game from scratch with provided TileEngine Renderer
- Utilized arrays and pseudorandom number generator for the world generation seed/layout
- Incorporated StdDraw and Serializable for the game UI behavior

VR Bowling Hackathon Project (C#):

- Created a VR Bowling Game at SodaHacks 2018 in a team of 4 with a top 8 finish
- Used Unity 3D with Oculus Integration and C#
- Contributed to the VR testing and developed the game environment/setting

Experience

Data 8 Course Staff Tutor

August 2018 – Present

- UC Berkeley Department of EECS Berkeley, CA
 - Instruct two small group tutoring sections for an introductory data science class of 1300 students
 - Hold office hours and assist students on Piazza for questions about Python-based homework and projects

CS 61A and Data 8 Lab Assistant

January 2018 – August 2018

- UC Berkeley Department of EECS Berkeley, CA
 - Assisted students in learning material covered in introductory computer science and foundational data science classes, including data analysis and foundations of machine learning 6.5 hours a week

Related Coursework

- STAT C100: Principles and Techniques of Data Science (Fall 2018)
- CS 61C: Machine Structures (Fall 2018)
- CS 70: Discrete Mathematics and Probability Theory
- CS 61B: Data Structures

- STAT C8: Foundations of Data Science
- Math 54: Linear Algebra and Differential Equations
- EE 16A: Designing Information Devices and Systems I
- CS 61A: Structure and Interpretation of Computer Programs

Skills

- Highly Skilled: Java, Python
- Familiar: C, C#, HTML, CSS, Scheme, SQLite
- Platforms: Git, Bitbucket, Vim, IntelliJ IDE, Microsoft Office, Sublime

Leadership and Extracurricular Activities

- Association of Women in EECS: Member (UC Berkeley)
- Rewriting the Code Fellowship: Fellow
- Sharp Hospital Volunteer: Guest Ambassador and Surgical Intensive Care Unit (223 Hours in San Diego)