Rishikesh Hirendu Vaishnav (Rish)

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Github: `https://github.com/rish987`
Up-to-date resume: `https://github.com/rish987/Application-Documents/blob/master/resume/resume.pdf`

EDUCATION

University of California, San Diego; San Diego, California
Bachelor of Science, Computer Engineering; December 2018 (expected) GPA: 3.94

RELEVANT COURSEWORK

- Multivariable Calculus and Analytic Geometry
- Linear Algebra
- Introduction to Differential Equations
- Engineering Probability and Statistics
- Introduction to Discrete Mathematics
- Linear Signals and Systems Fundamentals
- Design and Analysis of Algorithms
- Algorithms and Systems Analysis
- Introduction to Artificial Intelligence: Statistical Approaches
- Introduction to Artificial Intelligence: Search and Reasoning
- Introduction to Computer Vision
- Advanced Data Structures
- Computer Organization and Systems Programming
- Software Engineering
- Introduction to CS and Object-Oriented Programming: Java
- Engineering Computation Using MATLAB
- Data Structures and Object-Oriented Design in C/C++/Java
- Principles of Computer Operating Systems
- Theory of Computation (ongoing)
- Deep Learning (ongoing)
- Discrete and Continuous Optimization (ongoing)

SKILLS

Languages: Proficient with Java, Python, LaTeX. Experience with C, C++, Javascript, BASH, Matlab, SQL.
Libraries: Proficient with PyTorch, TensorFlow, CUDA, NumPy.
Applications: Proficient with Vi/Vim, IntelliJ IDEA, Eclipse, Git, MySQL.
Knowledge: Working knowledge of statistics, calculus, linear algebra, machine learning models, reinforcement learning.

EXPERIENCE

Undergraduate Researcher UC Scholars Program, UC San Diego
June 2018 - August 2018 La Jolla, CA
Under the guidance of professor Sicun Gao, studied state-of-the-art techniques in the field of reinforcement learning, including Trust Region Policy Optimization and Proximal Policy Optimization. Researched aspects of these algorithms that could lead to mathematical imbalances. Work still in progress. Paper draft available here:
`https://github.com/rish987/Reinforcement-Learning/blob/master/projects/dynamic_clipping/report/report.pdf`

Software Engineering Intern ServiceNow
June 2017 - September 2017 San Diego, CA
Developed database-related software for an ITSM web application using knowledge of Java, Javascript, and MySQL. Developed source code, debugged existing problems with the aid of the IntelliJ IDE, and wrote unit and integration tests.

Tutor for CSE 11 (Java) and CSE 30 (Assembly, C) UC San Diego CSE Department
September 2016 - December 2017 La Jolla, CA
Practiced professional communication and teaching skills by explaining computer science concepts to students and helping them with the debugging process. Responsible for grading of homework assignments/quizzes.