Rohan Yadav

Education

2015–2019 B.S. Computer Science, Carnegie Mellon University, Pittsburgh, .

Minor in Machine Learning

Dean's List, University and SCS College Honors

Selected Coursework: Algorithm Design and Analysis, Parallel Computer Architecture, Compiler Design, Optimizing Compilers for Modern Architectures, Complexity Theory, Distributed Systems, Programming Language Theory, Algorithms in the Real World, Reinforcement Learning

Experience

- 2019 Software Engineer, Cockroach Labs, New York City, NY.
 - o Implementation and Optimization of CockroachDB's distributed SQL execution engine.
- 2018 Software Engineering Intern, Uber Advanced Technologies Group, San Francisco, CA.
 - o Developed infrastructure for a migration from an internal data center to AWS
 - o Implemented a file access system within AWS for integration with existing data center services
 - o Dramatically enhanced scalability of batch compute jobs processing internal data
- 2017 **Software Engineering Intern**, Facebook, Menlo Park, CA.
 - o Developed system to perform disruptive upgrades on network switches
 - o Added packet subscription service for network switch agent debugging and maintenance
 - o Added various debugging features for engineers on the network infrastructure team

Skills C, C++, Standard ML, OCaml, Python, CUDA, Go, Git, X86 Assembly, AWS, Java

Research and Teaching

Parallel Computing

- o I am interested in research in the scope of parallel computing, including algorithms, language design and implementation, and systems.
- I worked on parallel algorithms and parallel programming languages in my undergraduate, advised by Umut Acar.

Teaching

- o Head Teaching Assistant (2017-2018). Parallel Algorithms and Data Structures
- o Teaching Assistant (2016). Principles of Functional Programming

Diderot

- o Worked to develop a new educational platform at CMU, used by 500 students daily
- o Developed a cloud based auto-grading system for student code

Publications

Undergraduate Thesis

Disentanglement, Theory and Practice Rohan Yadav

SPAA 2019 Brief Announcement: A Parallel Algorithm for Subgraph Isomorphism Rohan Yadav, Umut A. Acar

Talks

June 2019 A Parallel Algorithm for Subgraph Isomorphism Pheonix, Arizona ACM SPAA 2019

May 2019 **Disentanglement, Theory and Practice** *Pittsburgh, Pennsylvania* CMU Meeting of the Minds 2019

Awards

- o CRA Outstanding Undergraduate Researcher Nominee
- o Carnegie Mellon Senior Leadership Recognition
- o Presidential Scholar Semifinalist