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.
- Implementation and Optimization of CockroachDB's distributed SQL execution engine.

2018 **Software Engineering Intern**, *Uber Advanced Technologies Group*, San Francisco, CA.
- Developed infrastructure for a migration from an internal data center to AWS
- Implemented a file access system within AWS for integration with existing data center services
- Dramatically enhanced scalability of batch compute jobs processing internal data

2017 **Software Engineering Intern**, *Facebook*, Menlo Park, CA.
- Developed system to perform disruptive upgrades on network switches
- Added packet subscription service for network switch agent debugging and maintenance
- 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
- 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
- Head Teaching Assistant (2017-2018). Parallel Algorithms and Data Structures
- Teaching Assistant (2016). Principles of Functional Programming

Diderot
- Worked to develop a new educational platform at CMU, used by 500 students daily
- 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

rohany@alumni.cmu.edu

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

Awards

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

rohany@alumni.cmu.edu