

Souvik Banerjee

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Education

University of Texas at Austin

B.S. COMPUTER SCIENCE HONORS, MATHEMATICS

- Turing Scholar and Dean's Scholar
- Distinguished College Scholar, University Honors

GPA: 3.98

May 2019

Colleyville Heritage High School

VALEDICTORIAN, NATIONAL MERIT SCHOLAR

May 2015

Experience

Apple

SOFTWARE ENGINEER

- Core Kernel Virtual Memory (VM) team

Cupertino, CA
Sep 2019 - Present

Point72: Cubist Systematic Strategies

RESEARCH ANALYST INTERN: FX OPTIONS TRADING

- Improved automated trading systems by using Python and the FIX protocol to parallelize quote requests.

New York, NY
Dec 2018

Citadel Securities

SOFTWARE ENGINEER INTERN: LOW LATENCY

- Created a developer tool for analyzing and visualizing compiler optimizations to improve performance of trading systems.
- Created a C++ library for analyzing cache misses using Intel CPU performance counters and DWARF debug information.

Chicago, IL
Sep 2018 - Nov 2018

Apple

SOFTWARE ENGINEER INTERN: CORE KERNEL

- Implemented a new randomized thread scheduling policy in the XNU kernel to find concurrency bugs in macOS, iOS, tvOS, and watchOS.
- Led project design meetings and presented work to senior management.

Cupertino, CA
May 2018 - Aug 2018

Facebook

SOFTWARE ENGINEER INTERN: WHATSAPP IPHONE

- Added a new feature to notify contacts when a user changes their phone number on WhatsApp.
- Added a new feature allowing users to switch between voice and video calls.

Menlo Park, CA
May 2017 - Aug 2017

Facebook

SOFTWARE ENGINEER INTERN: WHATSAPP VOIP

- Improved reliability and deployment speed for WhatsApp's VoIP relay server, reducing upgrade times by 99%.

Mountain View, CA
May 2016 - Aug 2016

University of Texas at Austin

UNDERGRADUATE RESEARCHER

- Soujanya Ponnappalli, Aashaka Shah, Amy Tai, **Souvik Banerjee**, Vijay Chidambaram, Dahlia Malkhi, Michael Wei. "Scalable and Efficient Data Authentication for Decentralized Systems." arXiv:1909.11590.

Austin, TX
Aug 2017 - Aug 2019

University of Texas at Austin

TEACHING ASSISTANT

- Taught CS 439H Operating Systems Honors, CS 429H Computer Architecture Honors, CS 311 Discrete Mathematics.

Austin, TX
Aug 2016 - Dec 2017

Skills & Coursework

Languages & Frameworks Java, Rust, Python, C, Objective C, x86 assembly, C++, Swift, React

CS Courses

Computer Graphics, Artificial Intelligence, Computer Vision, Algorithms, Operating Systems, Programming Languages, Computer Architecture, Data Structures