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Chinmay Garg

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US Permanent Resident

EXPERIENCE

Meta

Senior Software Engineer

New York, NY

March. 2022 - Present

- Core Systems - Containers. Maintains all of Meta fleet through Twine(aka Tupperware)
- Growing core functionailites on our primary cluster management system
- Various systemd themes to scale and improve container orchestration on Meta's fleet
- Designed and implemented accelerator-infra for NVIDIA H100s/custom-ARM to enable AI-workloads

Meta

Software Engineer

Menlo Park, CA

July. 2020 - March. 2022

- Designed the Privacy Framework for anonymization within ads data
- Wrote the security system to control access to internal APIs
- Led distributed ID-rotations to secure user-data and synthesized policy development

Facebook

Software Engineering Intern

Menlo Park, CA

Jun. 2019 - Sep. 2019

- Developed distributed backend systems for Feed & Stories
- Built high-performance API for batched requests, utilizing batched sharding and cache writing (600M+ users)
- Reduced Stories CPU utilization by 7% through compression optimization
- Leveraged C++20 coroutines for sharded async calls.

UC Santa Barbara

Teaching Assistant

Santa Barbara, CA

Jan. 2019 - Mar. 2020

- CS154: Computer Architecture, CS170: Operating Systems and CS165B: Machine Learning.
- Taught lab sections and helped students understand core topics. Also conducted office hours and set-up auto grading and test cases for projects. Research at SecLab.

SAP

Software Engineer

Newtown Square, PA

Aug. 2016 - Aug. 2018

- Developed end-to-end system for cross team productivity monitoring
- Built CI-system for legacy codebases leveraging AWS-EC2 allowing for further retrofit
- Designed & built enhancements in C++ for SAP HANA and Custom-Code Module

PUBLICATIONS

Toward a Secure Crowdsourced Location Tracking System: Exploits on BLE tracking devices to introduce a new secure system SECrow

EDUCATION

University of California, Santa Barbara

Master of Science in Computer Science

Santa Barbara, CA

Sep. 2018 - Jun. 2020

Penn State University

Bachelor of Science in Computer Science

University Park, PA

Aug. 2012 - May. 2016

PROGRAMMING SKILLS

Languages: C++, C, Python, Rust, Bash, Ruby, Hack, PHP, SQL, Java

RELEVANT COURSES

Algorithms & Data Structures, Discrete Mathematics, Theoretical Computation, Advanced Operating Systems, Concurrent Parallel Programming, Runtime Systems, Highly Scalable Web Systems