

HARSH DEEP

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EDUCATION

University of Illinois at Urbana-Champaign

Bachelor of Science in Computer Science and Statistics

Aug 2018 - May 2022

Cumulative GPA: 3.68/4.0

Courses: Data Structures, Systems Programming, Cognitive Engineering (grad),

Statistical Analysis, Statistics and Probability I&II, Methods of Applied Statistics

EXPERIENCE

Modern Treasury

Jul 2022 – Current

Software Engineer III (Mar 2026 - Current)

- Advocated for and led RSpec to Minitest migration across 631 tests; strategically prioritized high-impact conversions to prove multithreading benefits and scale company-wide adoption; reduced full suite runtime from 3 hours to 90 minutes while cutting test infrastructure costs by 43%
- Identified that all payment flows depended on unmaintained **business** calendar library: forked repository, resolved all open issues, upgraded Ruby compatibility, upstreamed internal patches, fixing core functionality dependency risk
- Shipped Monthly Account Statements feature for 5,000+ accounts: engineered end-to-end pipeline with 30-second per-statement SLA, optimizing query performance and infrastructure throughput.

Software Engineer II (Feb 2024 - Feb 2026)

- Tripled international SWIFT Wires to over 80 countries while accounting for complex regulatory constraints with more than a dozen new tax and purpose systems
- Created a new LLM based framework to track banking holidays for 30+ zones with LLM sourcing and human review based on sparse government and central bank data
- Architected local CI system reducing developer feedback latency from 5+ minutes to immediate: standardized local environments, unified CI execution across local and cloud runners, [wrote about it on our engineering blog](#)
- Sped up the main CI pipeline build from 16 minutes to 4 minutes with improved parallelization and reordering dependency chains

Software Engineer I (Jul 2022 - Jan 2024)

- Implemented low-cost international payments terminating in the UK (BACS/CHAPS), Europe (SEPA, Nordic countries), Australia (BECS) and Hong Kong (CHATS) which collectively moves millions monthly
- Contributed to \$437k in additional annual revenue through helping land enterprise deals based by improving banking integrations at many of the world's largest banks

University of Illinois at Urbana-Champaign

Jun 2021 – Aug 2021

REU Intern – Human Computer Interaction

- Collaborated in a team of 4 researchers that developed an accessible live broadcast player (React, Redux, DvaJS), creating the first widely accessible Board of Trustees operation across 3 universities.
- Implemented ARIA support on 3 different website features and fixed keyboard accessibility for 28 actions.
- Filed 27 issues related to accessibility and feature improvements, outlining a future roadmap for a team of 10+ developers.

ACTIVITIES

Summer of Side Projects - sosp22.com

Founder and Head

- Created an informal class to help people kickstart 65+ side projects with 162 students from 12 countries.
- Handled the organization, managed the forum, gave individualized project feedback, and managed 10 staff.
- Held 5 different code-along workshops in Python and JavaScript - Chatbots, Web Scraping, Responsive Command Line Interfaces, Browser Extensions, and React.
- Invited as one of two undergraduates to present the program at the [Inaugural Illinois Computer Science Teaching Workshop](#) to an audience of over 100 educators from several countries across 2 years.

SKILLS

Languages

Java, Ruby, Python, JavaScript, TypeScript, Kotlin, C/C++, Golang, C#

Technologies

Rails, React, PostgreSQL, CI, AWS, NodeJS, RabbitMQ, Linux, Git, Selenium, Docker, Firebase