

PRADYUMNA SHOME

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Education

University of Illinois at Urbana-Champaign (UIUC)

B.S. Computer Science, Grainger College of Engineering

Champaign-Urbana, IL

August 2017 - May 2021

Selected Coursework: Security I + II, Distributed Systems, Machine Learning [PhD], VR, Combinatorics, Senior Thesis

In-progress Coursework: Security and Privacy for Home IoT, Programming Languages and Compilers

Achievements: Malwarebytes Cybersecurity Scholarship • 3 × Illinois Engineering Achievement Scholarship • Kleiner Perkins Engineering Fellowship Finalist • Edmund J. James Scholar • Forbes Under 30 Scholar • CS Outstanding Course Assistant Award (5 out of ~600)

Experience

Facebook

Seattle, WA

Software Engineering Intern, Privacy Control Infrastructure, Privacy and Data Use Org

September 2020 - December 2020

- Building a structured and decentralized framework to support 2 billion daily mutations to profile privacy settings
- Framework simplifies legal compliance, improves developer experience, and reduces the impact of SEVs
- Orchestrating data migration scripts to transition 86+ settings to new framework, and ensuring feature parity

Salesforce

San Francisco, CA

Software Engineering Intern, Records Experience, Platform Cloud

June 2019 - August 2019

- Created recommendation system for automatic test case suggestions; reduced 13 work days per sprint planning session
- Developed UI for Einstein Modeling's first Business Card Scanner, that used OCR and NER
- Ideated and built intern-matching social app that helps bolster personal connections and surfaces common interests.

Virtusa

New York, NY

Software Engineering Intern, Media & Content Division

July 2018 - August 2018

- Created serverless cloud app for semantic and fine-grained video search through time series analysis on video frames
- Build pipelines using AWS to automate data wrangling for 8+ entity schemas and multiple GBs of data
- Developed business intelligence (BI) tool to analyze social media reactions to popular media, using generative models

HackIllinois

Urbana, IL

Systems Staff

April 2018 - February 2019

- Developed Go microservices for user management, authorization, event registration, and cloud notifications
- Implemented user mocking, OAuth single sign-on, decision review, and templated mail to improve hacker experience
- API is continuously deployed using Travis and AWS, using a MongoDB Atlas cluster for persistence
- Integrated QR code scanning in Android app to help staff manage event check-in and track participant statistics

Other Relevant Experience

- **Leadership:** Director, Web Team, Reflections | Projections Technology Conference
- **Teaching:** Lead Course Assistant, Illinois CS 241: System Programming • Section Leader, Stanford CS 106A + Harvard CS 50 • Course Assistant, Illinois CS 233: Computer Architecture
- **Security Research:** ISCA 2021 paper in preparation on leaky hardware optimizations and side-channel attacks
- **NLP Research:** Graph neural nets, word embeddings, event schema induction

Technical Skills

- **Programming Languages:** Python, Go, Java, C, C++, Kotlin, HTML, CSS, JavaScript
- **Tools + Frameworks:** Cloud (AWS, Firebase, Travis, Serverless, Docker); Databases (MongoDB, MySQL); Web (React, Node.js, Web Components); Version Control (Git, SVN); Machine Learning (PyTorch, Scikit-learn, NumPy); Misc. (Intel VTune)