

# PRADYUMNA SHOME

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## Education

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### 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

**Achievements:** Malwarebytes Cybersecurity Scholarship •  $3 \times$  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

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### Facebook

Seattle, WA

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

*September 2020 - December 2020*

- Building a highly structured, loosely coupled, and decentralized framework to support 2 billion daily mutations to profile-level privacy settings, using Ent, an internal entity framework and Hack (PHP)
- Framework simplifies legal compliance, improves developer experience, and reduces the impact of high-severity incidents
- Creating data migration scripts to transition users to the new framework, and ensuring privacy policies have identical behaviors through trace equivalence checking

### 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 and data lake that enabled semantic and fine-grained video search through time series analysis on computer vision data
- Implemented reference business intelligence (BI) tool, using NLP generative models (LDA, NTM) to gain insights on social media reactions to popular films and TV shows

### HackIllinois

Urbana, IL

*Systems Staff*

*April 2018 - February 2019*

- Developed Go microservices to enable user authentication, authorization, event registration, and notifications via mobile app clients, including CI / CD pipeline, using MongoDB for persistence
- Built features such as user mocking, OAuth single sign-on, multi-tier decision review, templated mail, and created QR code scanner in Android app to manage event check-in and track participant statistics for meals and mini-events

## Other Relevant Experience

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- **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

## Technical Skills

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- **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)

Last updated: June 12, 2020.