Pradyumna Shome

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Education

University of Illinois at Urbana-Champaign (UIUC)   Champaign-Urbana, IL
B.S. Computer Science, Grainger College of Engineering   *August 2017 - May 2021*

Relevant Coursework:

Graduate / Upper Division: Computer Security I, II (CS 461, CS 463), Distributed Systems (CS 425), Machine Learning [PhD] (CS 446), Senior Thesis (CS 499), Virtual Reality (CS 498 VR), Combinatorics (CS 413)

Achievements:

Kleiner Perkins Engineering Fellowship Finalist • James Scholar • Forbes Under 30 Scholar • Outstanding Course Assistant Award, Department of Computer Science (∼5 out of 600) for work done as Lead Course Assistant, CS 241: System Programming • 3 × Illinois Engineering Achievement Scholarship

Industry Experience

Facebook   Seattle, WA
Incoming Software Engineering Intern   *September 2020 - December 2020*

Salesforce   San Francisco, CA
Software Engineering Intern, Records Experience, Platform Cloud   *June 2019 - August 2019*
- Created recommender 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

Academic Experience

FPSG, Security and Privacy Research at Illinois   Urbana, IL
Research Assistant — Advisor: Prof. Christopher W. Fletcher   *August 2019 - Present*
- Studying processor optimizations vulnerable to micro-architectural side-channel attacks
- Using dynamic information flow tracking (DIFT) to find Worst Case Execution Time (WCET) of a program, based on branch and value predictor state

Blender Lab, NLP Research at Illinois   Urbana, IL
Research Assistant — Advisor: Prof. Heng Ji   *August 2019 - December 2019*
- Conducting literature survey on event schema induction from multi-{media, lingual} representations using GNNs
- Annotating videos for Yoga Robot to understand more about the problem space; learning more about Attention Models and Transformers

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)

Last updated: June 01, 2020.