

PRADYUMNA SHOME

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EDUCATION

University of Illinois at Urbana-Champaign (UIUC)

BS in Computer Science · James Scholar · Dean's List

Champaign-Urbana, IL

Aug 2017 - May 2021

Course Assistant: CS 233 (*Computer Architecture*), CS 241 (*System Programming*)*

Relevant Coursework: Machine Learning*, Randomized Algorithms*, Computer Security I, Combinatorics, Algorithms and Models of Computation, System Programming, Data Structures, Numerical Methods, Computer Architecture, Data Visualization

* = *current*

EXPERIENCE

Salesforce

San Francisco, CA

Software Engineering Intern, Records Experience, Platform Cloud

Jun 2019 - Aug 2019

- Created web app to automatically suggest test plans for a new user story, by training NLP algorithms on work items and acceptance criteria of the feature, using JavaScript (ES2017), Apex, SOQL, Lightning Web Components, and Jest for regression and unit tests
- Reduced 13 days of engineering work days spent manually compiling test plans *per sprint planning session*
- Built intern-matching app using Python and Jinja, that helps bolster personal connections by introducing interns to each other, and surfacing common interests.

Virtusa

New York, NY

Software Engineering Intern, Media & Content Division

Jul 2018 - Aug 2018

- Created serverless cloud app and supporting data lake to model, process, and aggregate computer vision data for predictive analytics, using Python, AWS Lambda, Amazon API Gateway, and Amazon DynamoDB
- 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, using Boto3, Amazon QuickSight, and Amazon SageMaker

University of Illinois Computer Science

Champaign-Urbana, IL

Course Assistant, CS 241: System Programming

Jan 2019 - Present

- Lead a lab section, conduct office hours, and develop assignments to help students learn Linux system programming, and operating system concepts
- Contribute content to and maintain course textbook, and website, and conduct technical and behavioral interviews for prospective course staff members

HackIllinois

Champaign-Urbana, IL

Systems Staff

Apr 2018 - Feb 2019

- Developed Go microservices to enable user authentication, authorization, event registration, and notifications via mobile app clients, including CI / CD pipeline (Travis, AWS CodePipeline, Amazon ECS).
- Added features such as user mocking, OAuth single sign-on, multi-tier decision review, templated mail, error handling and CRUD (with MongoDB).
- Created QR code scanner in Android app to manage event check-in and track participant statistics for meals and mini-events.

Reflections | Projections

Champaign-Urbana, IL

Lead Web Developer

Jan 2018 - Sep 2018

- Principal full-stack developer of website written in ES6 using React, Webpack, and Nginx.
- Integrated microservices-based in-house registration API that brought in 2200+ applicants.
- Mentored junior developers through code review and pair programming.

TECHNICAL SKILLS AND MISCELLANEOUS

• **Interests:** *Computer Science:* Algorithms, Security, Machine Learning, Systems; *Other:* Table tennis, piano performance, bowling

• **Programming Languages:** Python, C, Java, Go, C++, Kotlin, HTML, CSS, JavaScript

• **Tools + Frameworks:** Cloud (AWS, Firebase, Travis, Serverless, Docker); Databases (MongoDB, MySQL); Web (React, Node.js); Version Control (Git, SVN)