

Pradyumna Shome

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EDUCATION

University of Illinois at Urbana Champaign

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: Computer Security I, Introduction to Algorithms and Models of Computation, System Programming, Data Structures, Numerical Methods, Computer Architecture, Software Design Studio

EXPERIENCE

Virtusa

Software Engineering Intern

New York, NY

Jul 2018 - Aug 2018

- Created serverless cloud app and supporting data lake to model, process, and aggregate computer vision data for predictive analytics
- 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

University of Illinois Computer Science

CS 241 Course Assistant (System Programming)

Champaign-Urbana, IL

Jan 2019 - Present

- Lead a lab section, conduct office hours, and develop assignments to help students learn system programming concepts such as networking, memory, processes, concurrency, inter-process communication, filesystems, and scheduling

HackIllinois

Systems Staff

Champaign-Urbana, IL

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 track participant statistics for meals and mini-events.

Reflections | Projections

Lead Web Developer

Champaign-Urbana, IL

Jan 2018 - Sep 2018

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

PROJECTS

- **Markdown Parser:** Parser that converts Markdown to HTML, written in Python.
- **NPSCconnect:** Learning management system featuring audio summaries of textbooks, online homework and IRC-based office hours.
- **The Farmer's Market:** Web app that provides real-time government crop procurement prices and weather information to rural Indian farmers, via SMS.
- **SimpleCabs:** Recommends a cab service based on cab fares, online reviews, and area serviced by each operator.

PROGRAMMING SKILLS

- **Languages:** Python, C, Java, Go, C++, Kotlin, Clojure, HTML, CSS, JavaScript
- **Tools + Frameworks:** AWS, MongoDB, Firebase, MySQL, Serverless, Docker, Travis CI, React, Git, Node.js, NoSQL, Bootstrap, NLTK/TextBlob, NumPy, Scikit-Learn