Pradyumna Shome

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EDUCATION

University of Illinois at Urbana Champaign Champaign-Urbana, IL
BS in Computer Science ·James Scholar ·Dean's List *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

Salesforce San Francisco, CA
Software Engineer Intern *Jun 2019 - Aug 2019*

Virtusa New York, NY
Software Engineering Intern *Jul 2018 - Aug 2018*
- Applied data science and data warehousing techniques to power an upcoming video-on-demand product. Implemented a data lake to build a serverless cloud app to model, process, aggregate computer vision data for predictive analytics
- Trained NLP generative models such as Latent Dirichlet Allocation (LDA), and Neural Topic Model (NTM) to gain insights on social media reactions to popular films and TV shows, to create a reference implementation for a business intelligence (BI) tool

HackIllinois Champaign-Urbana, IL
Systems Staff *Apr 2018 - Feb 2019*
HackIllinois is a premier intercollegiate hackathon with an emphasis on the open-source development model.

- Worked on Go microservices that provide end-to-end support to staff and participants in registration, mini-event management, and in-event notifications via mobile app clients
- Features involved OAuth, templated mail integration, and CRUD (with MongoDB), which were continuously integrated and deployed using Travis CI, AWS CodePipeline, and Amazon ECS.

Reflections Projections Champaign-Urbana, IL
Lead Web Developer *Jan 2018 - Sep 2018*
- Develop the official website for a student-run technology conference, and built integrated registration tracking platform that produced 2200+ applicants.
- Performed load testing using cURL, and resolved Cross-Origin Resource Sharing (CORS) issues

PROJECTS

- **Markdown Parser**: Parser that converts valid Markdown to HTML, written in Python. I wrote this as a fun way to understand more about lexical analysis and transpilation.
- **NPSConnect**: Learning management system features audio summaries of high school textbooks, online homework / assignment management, and facilitates virtual office hours through IRC plugin.
- **The Farmer's Market**: Web app that provides real-time government crop procurement prices and weather information to rural Indian farmers, via SMS.
- **SimpleCabs**: A taxicab aggregator that uses cab fares, online reviews, as well as the area serviced by each operator, to suggest a service for the user.

PROGRAMMING SKILLS

- **Languages**: Python, C, Java, JavaScript, C++, Go, HTML, CSS

- **Tools + Frameworks**: AWS, MongoDB, Firebase, MySQL, Serverless, Docker, Travis CI, ReactJS, Git, Node.js, NoSQL, Bootstrap, NLTK/TextBlob, NumPy, Scikit-Learn, Travis CI