Pradyumna Shome

ABOUT

LINKS

WEBSITE
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GITHUB:
github.com/PradyumnaShome

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EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN
BS in Computer Science
Aug 2017 - May 2021
CS 233 Course Assistant
(Computer Architecture)
James Scholar
Dean's List

SKILLS

TECHNICAL
Programming Languages:
Python • Java • C • C++ • Go •
JavaScript • HTML • CSS
Platforms:
Cloud • Android • Web
Databases
Relational (MySQL • MariaDB)
Non-relational (MongoDB •
Firebase • DynamoDB)
Tools + Frameworks
AWS • Azure • Serverless •
Docker • Travis CI • NLTK /
TextBlob • React • Flux / Redux •
Node.js + Express + SocketIO •
Scikit-Learn • Bootstrap • Git •
SVN • jQuery • Unity3D

COURSEWORK

Software Design Studio
Data Structures
System Programming*
Computer Architecture
Numerical Methods*

ACHIEVEMENTS

Illinois Engineering Achievement
Scholarship

AP Scholar with Distinction

EXPERIENCE

VIRTUSA · SOFTWARE ENGINEERING INTERN
July 2018 – August 2018 | New York City, New York
- 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, and performed sentiment analysis on user reviews, to create a reference implementation for a business intelligence (BI) tool

HACKILLINOIS · SYSTEMS STAFF
April 2018 – Present | Urbana, IL
HackIllinois is a premier intercollegiate hackathon with an emphasis on the open-source development model.
- Worked on a collection of Go microservices that provided end-to-end support to staff and participants for admissions, registration, mini-events and in-event notifications via mobile app clients
- Features involved concurrency, OAuth, templated mail integration and CRUD (with MongoDB)
- All code was reviewed and in a continuous integration + continuous delivery pipeline using Travis CI, AWS CodePipeline, and Amazon ECS.

REFLECTIONS | PROJECTIONS · WEBSITE STAFF
Jan 2018 – Present | Urbana, IL
- Used modern Web development tools such as Webpack, React and Bootstrap to develop the official website for Reflections | Projections, a student-run technology conference.
- Integrated registration with backend API, using Axios HTTP request library, including front-end and back-end form validation
- Performed load testing using cURL, and resolved issues relating to Cross-Origin Resource Sharing (CORS)

PROJECTS

MARKDOWN PARSER July 2018
- An in-progress markdown 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.

PIXELOCA Dec 2017
- A photo-sharing social networking service featuring location-tagging, built as an Android app.

NPSCONNECT Nov 2015
- A learning management system implemented as a Web + Android app. NPSConnect features audio summaries of high school textbooks, and online homework / assignment management. It facilitates student-teacher interaction in the form of virtual "office hours" through the use of an IRC plugin.

THE FARMER'S MARKET Jun 2014
- A web app that provides real-time government crop procurement prices and weather information to rural Indian farmers, via SMS, through web scraping. It eliminates middlemen from the procurement process and ensures farmers fair compensation

SIMPLECABS July 2015
- A taxicab aggregator in Node.js using the Cheerio web scraping module. It uses cab fares, online reviews, as well as the area serviced by each operator, to suggest a service for the user.