Pradyumna Shome



Personal Info

E-mail

pradyumna.shome@gmail.com

GitHub

github.com/PradyumnaShome

Website

pradyumnashome.com

LinkedIn

linkedin.com/in/shomep



Education

Aug 2017 - May 2020 BS, Computer Science, University of Illinois at Urbana-Champaign

James Scholar, College of Engineering



Skills

Programming Languages: Java, Python, C++, Go, HTML, CSS, JavaScript, Verilog

Platforms: Android, Web

Databases: Relational (MySQL, MariaDB) Non-relational (MongoDB, Firebase, Amazon DynamoDB)

Tools + Frameworks: Amazon Web Services(many), Azure, Bootstrap, Node.js, Express.js, React, Flux/Redux, Git, SVN, GDB, Unity3D, Scikit-Learn, jQuery, Travis CI. Docker



Courses

Software Design Studio

Data Structures

System Programming

Computer Architecture

Numerical Methods

Udacity 120: Intro to Machine Learning



Achievements

Illinois Engineering Achievement Scholarship

Dean's List

AP Scholar with Distinction



Experience

Jul 2018 -Aug 2018

Software Engineering Intern

2018 *Virtusa*

- Applied data science to time series data to power an upcoming video-ondemand product
- Used cloud infrastructure to build a serverless app using data lakes to model, process, aggregate and eventually, use ML models for predictive analytics

Apr 2018 - present

Systems Staff

HackIllinois

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)

Jan 2018 -

Website Staff

present Reflections | Projections

 Used modern Web development tools such as Webpack, React and Bootstrap to develop the official website for Reflections | Projections, a student-run technology conference

Aug 2018 -

Course Assistant

present

UIUC CS 233: Computer Architecture

 Holding office hours / assisting TAs in lab sections for students in an undergraduate computer architecture course



Jul 2018

Projects

Markdown Parser

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.

Dec 2017

Pixeloca

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

Jun 2017

HeartnetIndia

Full Stack Web Development

An online appointment scheduling web app, as well as cardiac risk factor and physician onboarding survey forms for a pilot tele-ECG screening program, at HeartnetIndia.

Nov 2015

NPSConnect

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.

Jun 2014

The Farmer's Market

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.

Jul 2015

SimpleCabs

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.