

PRADYUMNA SHOME

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Skills and Abilities

- **Languages**
Java, Python, C/C++, JavaScript, HTML, CSS, MySQL, Shell scripting, Unit testing
- Programming from the age of 10
- **Programs / Platforms**
Node.js, Express.js, Bootstrap, Materialize, jQuery, Android Studio, Unity3D, Git, Linux, Scikit-Learn

Interests

Software Development, Deep Learning, Information Security, Artificial Intelligence, and Human Computer Interaction

Certifications

1. Programming in Java, Oracle Workforce Development Program, National Institute of Information Technology, Jan 2014
2. C Programming, National Institute of Information Technology, May 2011
3. Grade 5 in Piano performance, Trinity College London, Nov 2016

Community Service

Volunteer, Ashwini Charitable Trust

Spent 60+ hours of during April 2016 at. Responsible for redesigning, repurposing, and optimizing discoverability by search engines

Education

University of Illinois at Urbana-Champaign

Bachelor of Science in Computer Science | Expected May 2020

In progress: Discrete Structures, Software Design Studio

Expected by year-end: Data Structures, and Computer Architecture

Activities and Societies: Association for Computing Machinery

National Public School, HSR Layout

All India Senior School Certificate Examination (Grade 12) -| 2017

Aggregate Percentage: 95.2%

English, Mathematics, Physics, Chemistry, and Computer Science

Projects

- **State finalist, CBSE National Science Exhibition, June 2014**

Language(s): Java ServerPages, Python, HTML, CSS

- Worked on a web application that provided real time government crop procurement prices and weather information to rural Indian farmers, via SMS, through web scraping
- If implemented, it would eliminate middlemen from government crop procurement, thus normalizing rates, and supporting agriculturalists

- **Participant, DPSE CodeFest 2016, an intercollegiate hackathon**

Language(s): C++

- Our team developed an application to monitor and control municipal water supply that optimizes water use and helps detect crimes related to exploitation of water resources
- It helps build accountability in water distribution companies contracted by the city municipal corporation
- If implemented, it could seriously prevent the exacerbation of the water scarcity in Bangalore city

- **Participant, NPSK Hack 2015, an intercollegiate hackathon**

Language(s): JavaScript/Node.js/cheerio, HTML, CSS, MySQL

- Our team developed *SimpleCabs*, a taxicab aggregator in Node.js using the Cheerio web scraping module

- **Developer and designer, NPSCConnect, November 2015**

Language(s): LAMP stack, Java, PHP, HTML, CSS

- A web application and Android app
- Features: Audio summaries of high school textbooks, online homework and assignment management, and student-teacher interaction via an IRC extension, for remote "office hours"

- **Web developer, HeartnetIndia**

Language(s): LAMP stack, JavaScript /Node.js w/ Express+Multer, HTML, CSS, AJAX

- Developed and designed an online appointment scheduling system, and cardiac risk factor and physician onboarding survey forms for a pilot tele-ECG screening program, at *HeartnetIndia Pvt. Ltd.* (heartnetindia.com)