Pintu Lal M

Mob: (+91)9987217204   pintulalmee@gmail.com   http://pintulalm.me

Education:

IIT Bombay   Mumbai, India

B. Tech, Computer Science and engineering   May, 2017

Android Music Player, Subpart of an Untitled Android app   [Jan, 17 - present]

- Developing an Android App using Recycler view, Media Store Content provider, List view, Pager, Fragments and android services etc.

- Made smooth scrolling of list by implementing image caching with Async task.

Co-Founder at Jefto   [Jul, 15 – Sep, 15]

- Worked as lead developer and responsible for site development and maintenance.

- Built and deployed on Amazon Elastic Compute Cloud.

- Utilized JavaScript and html extensively to improve rendering performance.

- Technologies: PHP, PostgreSQL, jQuery and AWS Linux panel for hosting, CDN Caching.

Developer at Shaastr (Internship)   [May, 15 – Jul, 15]

- Implemented a cron utility to schedule tasks in real time using threading with shared object.

- Implemented backend registration of user with multiple type, serving data to fronted basic of user type, backend admin panel, database implementation etc.

Academic Projects

- **Social library:** Built a social library using java servlet, PostgreSQL DBMS, html, Jsp and query language. Implemented signup, login, add user, issue, submit, add or search book functionally based on user's privilege.
- **Chinese checkers:** Implemented Chinese checkers game, in DrRacket (LISP), using functional programming. Used min-max algorithm along with alpha-beta pruning to implement the AI part.
- **Sudoku Solver:** Implemented a Sudoku solver based on an algorithm devised using a human's approach to solve Sudoku. Coded in C++.
- **Virtual Memory Implementation:** Added VM manager to GeekOS, an operating system kernel. Implemented modules for handling process memory allocation, swap space management and page replacement strategies.
- **Artificial Intelligence:** A* search algorithm implementation on 8-puzzle problem to find optimal solution.

Miscellaneous

- Designed and implemented a missile launcher simulation in Box-2D.
- Implemented a socket chat server with multiple client support in C/C++.
- Implemented a web crawler in c++ and multithreaded http web server in java.

Technical Skills

- C/C++, Android Development, Java, PHP, PostgreSQL, MySQL, Familiar with jQuery, HTML, Django-python