Utkarsh Maheshwari

Aspiring Software Engineer. Ardent Open Source Supporter.
coditva.github.io | coditva@gmail.com

EDUCATION

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI
B.E. in Computer Science
CGPA: 6.7 / 10.0
2019 | Goa, India

URSULINE CONVENT SCHOOL
Percentage: 91%
2015 | Greater Noida, NCR, India

LINKS

Github:// **coditva**
Twitter:// **coditva**
LinkedIn:// **coditva**

SKILLS

LANGUAGES
Proficient:
C • NodeJS • Shell
Working knowledge:
C++ • Java • Python • Lua •
Scala • Assembly • Web Tech •
PHP • SQL • MongoDB • LaTeX

TOOLS
Vim • Linux • Git • Docker •
Make/Cmake • TravisCI

EXTRA CURRICULAR

OPEN SOURCE CONTRIBUTIONS
Neovim • Elementary Tweaks • Gnome
Todo • BaremetalOS

HOBBIES
Literature • Philosophy • Music
Production • Graphics Design

SOCIETIES AND DEPARTMENTS
Open Source Development Labs •
Department of Creative Works •
Department of Publicity and PR

RECOMMENDATIONS

SUBHASIS BHATTACHARYA
Director - Software Engineering
PBSWorks, Altair Engineering

EXPERIENCE

PBSWORKS, ALTAIR ENGINEERING | Software Engg. Intern
Jul 2018 - Dec 2018 | Bangalore, India
- Led and completed the project for adding support in Apache Spark to use PBSPro as a cluster workload manager.
- This allows running Big Data and HPC jobs on single cluster.

NEOVIM | Google Summer of Code Student
May 2018 – Aug 2018 | Remote
- Improved external UI protocol to allow applications to provide "vim-mode".
- Work done during the whole period: **github.com/neovim/neovim/issues/8320**

AIIMS BHOPAL | Software Engg. Intern
Jun 2018 – Jul 2018 | Bhopal, India
- Wrote the backend for a webapp for medical reports and inventory management.
- Automated documentation, testing: **github.com/BitsAiims2017/api**

PROJECTS

JAZZ | OS Development
github.com/coditva/Jazz
Jazz is a hobby OS in its early stages written from scratch as a proof of concept to understand OS by doing.

UDT PROTOCOL IMPLEMENTATION | Network Programming
github.com/coditva/udt-c
An implementation of the UDP-based Data Transfer (UDT) protocol in C. UDT is a much faster data transfer protocol than TCP with a socket interface just like TCP.

SYNERGY | Network Programming
github.com/coditva/Synergy-linux
An application to sync Android and Linux notifications when connected to the same local network, written in C and allows extension through plugins.

A VIM STORY | Low Graphics Game Development
github.com/coditva/a-vim-story
A ncurses based 2D (bomberman-like) game to learn Vi/Vim, written purely in C language with LibNcurses, CMake, Doxygen.

WRITE. RUN. TWEAK. | Game Development
github.com/coditva/WRT
A game submission for GitHubGameOff 2019 game jam written in Lua and LOVE2d.

MICRO-C COMPILER FRONTEND TO LLVM | Compiler
github.com/coditva/uc-to-llvm
Parser for micro-C (a subset of C language) which generates LLVM IR.

DOCKER PRIVATE NETWORK | Docker
github.com/coditva/docker_private_network
Proof of concept network private to docker containers connected to docker swarm.

BITSNET LOGIN | Shell Scripting
github.com/coditva/BitsnetLogin
A command-line application for automating logging into campus internet portal.