Aakash Jain

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EDUCATION

MANIPAL UNIVERSITY JAIPUR
BTech Comp. Science & Engg.
Aug 2012 -- May 2016 (Expected)
CGPA: 9.18/10

DELHI PUBLIC SCHOOL PUNE
Cbse XII
2011 | 81.4%
Cbse X
2009 | 92.1%

SKILLS

LANGUAGES
Proficient:
C++ • C • Python • Ruby • MATLAB
R • MySQL
Familiar:
Java • Swift • Scala • Rust • Bash
JavaScript • LaTeX

FRAMEWORKS
Android • Rails • CUDA • Qt • OpenGL
OpenCV • Unity3D • Phaser • Sinatra

OPERATING SYSTEMS
Linux • Windows

INTERESTS

Machine learning • Programming
languages • Data analysis • Game
development • Genetic algorithms

COURSEWORK

UNDERGRADUATE
Information Retrieval
Distributed Systems
Parallel Programming in CUDA
Operating Systems and Linux
Computer Graphics
Optimization Techniques

OPEN COURSES
Machine Learning: Stanford
Mining Massive Datasets: Stanford
Data Science in R: John Hopkins
Functional Programming in Scala: EPFL
Computer Graphics with OpenGL: UCB

PROJECTS

SERVO | Open Source Contributions
Mozilla's parallelizing browser engine, written in Rust.
- Contributing bugfixes and enhancements.
- Gained experience of working with professionally written code.
- Gained strong understanding of the Github workflow.

NOODLECHAT | Forking conversations (Ongoing)
A chat-by-invite application with a difference.
- Creating system to "fork" chats into organized conversation strands.
- Designing intuitive UI to navigate forks.

IT'S COMPLICATED | 2D Puzzle Game
A cross-platform Unity3D game built as a Software Engineering project.
- Worked in a team of two, engaged in pair programming.
- Designed game mechanics and visuals.
- Performed requirement analysis, wrote supporting documents.

SCROBBET | CLI Scrobbler for Last.FM
A CLI that sends music track metadata to Last.FM, a music social network.
- Wrote a Sinatra backend to authenticate and send JSON data to Last.FM's API.
- Wrote code to send metadata from the Python CLI to the webapp.
- Created in long-distance collaboration over Github.

NATIONALANTHEMS | Data Analysis Webapp
A webapp that shows the most popular music artists in a country.
- Wrote R code to fetch and analyze realtime data from Last.FM's API.
- Displays an interactive plot that reacts to user input.

DICTAPHONE | Dictionary for Android Devices
A multilingual offline dictionary Android app.
- Created a low size database and custom ContentProvider for fast loading.

YDL | Video Downloader
A GUI wrapper for youtube-dl, a popular CLI video grabber.
- Written in Qt, as part of Codesomnia 2014, an overnight coding contest.

TRAINING

HEWLETT PACKARD EDUCATION SERVICES | Android Dev
June-July 2014, Pune, India
Learned about and worked with the Android SDK. Created Dictaphone (see projects) as a final project and was awarded the A+ grade.

POSITIONS OF RESPONSIBILITY

2015 **Pro-chair of IEEE Student Branch** at MUJ. Founding member.
2014 **Taught introductory programming** to freshmen, recapped entire course.
2014 **Student Placement Coordinator** at MUJ's Training and Placement Cell.