

Education

Dual Degree (Mechanical Engg) **IIT Kharagpur** **CGPA 8.35/10.0, upto Fall 2016**

- Senior year; Minor in Mathematics and Computing; Graduating in April 2018;
- Related coursework: Design and Analysis of Algorithms; Operating Systems; Cryptography and Network Security; Switching and Finite Automata; Probability and Statistics;

Skillset

- **Proficient:** Java, C, Ruby, Python, Node.js, HTML, CSS
- **Familiar:** MongoDB, MySQL, PHP, Objective-C,
- **Frameworks:** Android SDK, Ruby on Rails, CodeIgniter (PHP), Bootstrap, [Robot Operating System](#), Retrofit (library)
- **Environment:** Ubuntu, Bash, Git, Vim

Experience

Software Engg Intern (Android) **Hiperware Pte Ltd** **Summer 2016**

- Completed the port of the iPad app [Learn and Earn](#) to [Android](#) in 3 months
 - Learn and Earn is an educational app targeted at kids in grades 1 through 4. It ties learning goals to rewards that can be earned when these goals are met. The iOS app is being used by parents of 400 kids as their chosen homework application.
 - The app was launched on the [Playstore](#) in January 2017
 - Integrated the Amazon In-App Purchases and the Google Play In-App Billing APIs for incorporating the subscription business model of the application; Multiple build variants for targeted builds to each app store: Amazon and Play Store
 - Extensive use of the Fragment and MediaPlayer APIs. Custom Layout containers used to recreate same layout as on iOS
- Technologies:** Android SDK, Java, Volley, OkHttp, Node.js, Gradle, MongoDB, Heroku, AWS

Software Engg Intern (Web) **Hiperware Pte Ltd** **Summer 2015**

- Completed building the website for the Learn and Earn iOS application; incorporating Google AdWords and Tag Manager
- Implemented required endpoints on the ExpressJS (Node) based API backend for the website
- Worked remotely with a globally distributed team, with lead engineer in Russia and founder in the US

Web Team Head **Students' Alumni Cell, IIT Kharagpur** **March, 2014 - April, 2016**

- Developed a [web portal](#) for the Student Alumni Mentorship Programme, to automate the process of registration and allotment of mentors to students. More than 300 Alumni and 400 students registered on this portal, over a span of 3 months
 - Developed the [Internal ERP system](#) for Alumni Cell to move management of Alumni from Google Sheets to a managed system. The system had more than 2000 alumni and was deployed internally in KGP on Passenger with Apache.
- Technologies:** Ruby on Rails, ERB, CSS, JavaScript, Phusion Passenger, Apache, Ubuntu server, MySQL

Open Source

Senior Developer **Autonomous Underwater Vehicle Research Group** **March, 2014 - present**

- Developed a [Position Estimator module](#) that implements Kalman Filter using the Robot Operating System's Python API
- Built a tool for the Image Processing team which makes threshold value estimation faster and error-free through a [Qt GUI](#)
- Maintainer of the [central codebase](#), merged 30 patches since May, 2015

Open Source Project **[CLI Rubik's Cube Timer](#)**

- [cli-cube-timer](#) is an NPM module that is helpful for tracking the history of times that an enthusiast solves the Rubik's Cube in
- Built in [Gist API](#) integration that will maintain a backup of your complete solve time history on a [Gist](#)
- This module has been downloaded [more than 4500 times in the past 1 year](#)

Open Source Project **[Terminal Wallet Manager](#)**

- terminal-wallet is a module to manage your wallet from the terminal with options like *stash*, *debit*, *credit*, etc
- It has an option to *export* the wallet for the past period to a CSV file which can then be shared with others or stored for records
- This module has been [downloaded 1200 times](#) since it's release in July 2015