






# Saathvik DPKS

## Systems Engineer | Fullstack developer

 [linkedin.com/in/saathvik782](https://www.linkedin.com/in/saathvik782)  [github.com/saathvik782](https://github.com/saathvik782)  
 +91 8884167178  [saathvik782@gmail.com](mailto:saathvik782@gmail.com)  
 Sector 76, Noida - 201301  Born on 27th March 1994

Linux developer for over two and half years. I also have worked in full stack development roles. I have always been interested in tinkering with various software. I am passionate about building complex systems by plugging in multiple pieces of software and making them work with each other. I wish to pursue any project which can aid me to expand my knowledge base to achieve the same.

## EDUCATION

2015 Bachelor of Technology in **Indian Institute of Technology, Madras.**  
Major in **Computer Science and Engineering** and Minor in **Physics**

## SKILLS

**Programming languages** Proficient : C++, C, Python, Bash. Familiar : Ruby, Javascript, HTML, CSS  
**Frameworks** Django, RoR, Angular  
**Databases** Familiar : MongoDB, MySQL  
**Applications & Tools** Elasticsearch, Git, Docker, Vagrant, Visual Studio Code  
**Operating systems** Linux, Windows  
**Others** Adobe Photoshop

## PROFESSIONAL EXPERIENCE

- |   |  |
|---|--|
| <b>Present</b><br><b>June 2016</b>          | <b>Linux developer   Software Architect, SAMSUNG RESEARCH INSTITUTE, Noida</b> <ul style="list-style-type: none"><li>&gt; Worked on audio processing pipeline for samsung smart TV's on TIZEN (samsung linux distribution)</li><li>&gt; Developed and maintained TIZEN device drivers for various audio devices</li><li>&gt; Worked on tools for memory leak detection and analysis of Samsungs TV automated testing framework</li><li>&gt; Developed an automated testing framework to perform coordinated tests and update result, facilitating product maintenance and bug detection</li></ul> <div style="display: flex; gap: 5px;"><span>C++</span><span>ALSA</span><span>DUMA</span><span>Linux Kernel</span><span>Product Development</span><span>Algorithms</span><span>Django</span><span>Python</span></div> |
| <b>Dec 2015</b><br><b>June 2015</b>         | <b>Full stack developer, QPLUM, Bangalore</b> <ul style="list-style-type: none"><li>&gt; Worked alongside a team of engineers to bring up their feature product, a medium frequency stock market strategies retail system</li><li>&gt; Built a tool facilitating representation and comparison of market data to customers</li></ul> <div style="display: flex; gap: 5px;"><span>Ruby</span><span>RoR</span><span>Angular</span><span>Javascript</span><span>CSS</span></div>  |
| <b>July 2013</b><br><b>May 2013</b>         | <b>Internship, ADP, Hyderabad</b> <p><i>Data analyst for WEB APPLICATIONS</i></p> <ul style="list-style-type: none"><li>&gt; Developed a plugable tool for collecting user behaviour and product element level focus statistics on existing products, created a chrome extension for displaying collected statistics to the developer as heatmaps and pie charts</li></ul> <div style="display: flex; gap: 5px;"><span>Nodejs</span><span>mongoDB</span><span>Elasticsearch</span><span>web-technologies</span></div>  |
| <b>January 2013</b><br><b>December 2012</b> | <b>Internship, 24Cross, Chennai</b> <ul style="list-style-type: none"><li>&gt; Developed a bookmarking tool with a focus on easy retrieval and discovery of your bookmarks with Google search. Private groups can bookmark pages for sharing and archiving of web resources. Relevant pages bookmarked by you and your groups show up along with regular Google search results.</li></ul> <div style="display: flex; gap: 5px;"><span>Nodejs</span><span>Django</span><span>web-technologies</span></div>  |

### **INTELLIGENT GROUND VEHICLE, CENTRE FOR INNOVATION, IIT MADRAS**

- Worked with the software development team for autonomous control of the ground vehicle using ROS.
- Worked on data integration from multiple sensors for a comprehensive understanding of the environment and plan the vehicle navigation accordingly
- Worked on data acquisition from the GPS sensor – A101 model into the ROS framework in Ubuntu

ROS Robotics C++

### **BILL-GENERATOR APPLICATION, TEAM SAHAAY, CENTRE FOR INNOVATION, IIT MADRAS**

Developed a desktop application for generating bills with minimal input from a leap motion sensor, for children with cerebral palsy of an NGO in Chennai, Used python and pythonTK libraries to develop the basic desktop application; that was later shifted to web platform (RoR) for greater portability

Python RoR

### **QUERY SUGGESTIONS FOR A SEARCH ENGINE, AS A PART OF NLP COURSE**

Developed a query suggesting code using search engine history in a limited period in Python. Used clustering techniques to group related queries and provide suggestions accordingly

Python NLP

### **MULTI-PLAYER ONLINE WORD GAME, QPLUM INTERVIEW CHALLENGE**

Developed a server for providing real-time view of moves of other players, instant messages and score board, Used nodeJS for creating the server, socket.io for maintaining the communication, and then basic HTML and CSS for the User Interface

Nodejs web-technologies

### **DESIGNED A DESKTOP APPLICATION, AS A PART OF YAHOO HACKATHON**

Worked with PHP and certain APIs to develop an application to transfer messages from mobile to desktop through Internet, to shut down a computer with a QT-based interface

PHP QT