

# Sujay Patil

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## SUMMARY

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I am pursuing Computer Science and Engineering with specialization in Bioinformatics, at Vellore Institute of Technology, and I am a complete Computational Biology and Bioinformatics enthusiast. In college, I have been involved in quite a few projects. The most recent and significant one I was involved in, was the development of a web application which can help people chart previously unmapped routes using the GPS on their phones and publish their results to mapping services like Google Maps and MapBox. The app is currently being hosted on Azure.

(to visit – [www.pathmaker.azurewebsites.net](http://www.pathmaker.azurewebsites.net)). To view more of my work -- <https://github.com/SujayPatil96>.

At the University, I am part of a research facility called Microsoft Innovation Centre, which is funded by Microsoft. Different projects from different clubs and chapters operating at VIT are outsourced to us. We also have access to a lot of resources provided to us directly by Microsoft like the Kinect kit, Raspberry Pi, etc. As part of this organization, I have conducted a lot of training camps and lecture series, which revolve around core Microsoft technologies like C# with ASP.NET, Azure, Universal Windows Platform (UWP) – Windows app development, Windows IoT core and SQL Server.

I completed the 4-month long training programme conducted at VIT on ‘Internet of Things with sensors and cloud computing’ and then, another course on ‘Web Programming using node.js/AngularJS/PHP/MongoDB’. I am also currently enrolled in a ‘Big data analytics’ training programme (with Mainframe, R and Hadoop) at VIT.

Also, I worked with VMware at the head office in Bangalore for 2 months, from June 2016 – August 2016. Here, I had undertaken 3 major projects which I have detailed later in this doc. These projects mainly revolve around full-stack web development.

I’m also looking for ways to improve my current skills in statistics, statistical programming languages and experience with databases as I hope to become a specialist in working with Big Data and Big Data Analytics, because at the end of the day, Biological data is nothing but Big Data.

## OBJECTIVES

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With my current skill set and the skills I’m still developing, both in Computer Programming and Statistics, as well as my knowledge of the Biosciences, I hope to land a job in the Big data sector of a reputed Bioinformatics firm.

It has also been my dream to pursue a Master’s degree (M.S) from a reputed Institute, and someday I also hope to start my own company.

## EDUCATION

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Vellore Institute of Technology <b>Vellore</b> , Tamil Nadu, India B.Tech in Computer Science and Engineering with specialization in Bioinformatics, <b>CGPA: 9.11</b>	2014 - Present
Delhi Public School, South <b>Bangalore</b> , Karnataka, India Class XII, <b>Percentage: 94%</b> (CBSE Board)	2012 - 2014
Delhi Public School, South <b>Bangalore</b> , Karnataka, India Class X, <b>CGPA: 10.0</b> (CBSE Board)	2013 - 2014

## PROFESSIONAL SKILLS

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General Purpose programming languages:

1. C
2. C++
3. Java

Web Development:

1. HTML5
2. CSS3
3. JavaScript  
(Additional libraries – jQuery, Bootstrap, AJAX)
4. Traditional Web Server technologies (Back-end/server-side scripting):  
PHP and MySQL

RDBMS software:

1. Oracle Database and MySQL

Statistical Analysis:

1. R programming
2. Hadoop

SysAdmin skills:

1. LINUX Command Line Interface
2. Shell scripting

Programming hardware platforms:

1. Arduino: Embedded C

## MAJOR PROJECTS UNDERTAKEN

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I have been involved in numerous projects, but of the lot, the most significant ones have been-

Sl. No.	Project Title	Project Description	Organization Affiliated
1	Development of a web app for mapping previously unmapped routes and publishing to services like Google Maps, Bing Maps, Mapbox, etc.	<p>The major objective that inspired the development of this project was the fact that it was nearly impossible for satellite imagery to achieve the level of precision that we expect, at least not in underdeveloped areas. So, with this in mind we set out to build a web app which could do this.</p> <p>Currently, it is being hosted on Microsoft's cloud platform – Azure. Please use this link – <a href="http://www.pathmaker.azurewebsites.net">www.pathmaker.azurewebsites.net</a></p>	Microsoft Innovation Center, Vellore Institute of Technology
2	Development of a full-stack web app for the HR Team which should allow verified users to update employee details directly in the Active Directory.	<p>This web app should allow authenticated users to make changes to the Employee ID (EMP ID) field in the Employee Database/Active Directory.</p> <p>Since we didn't have direct access to the Database we had to interface it with another tool which further interacted with the DB.</p>	VMware, Bangalore
3	Development of a frontend/portal which facilitates monitoring of the various Databases at VMware Bangalore	<p>The portal, called the Greenplum self-service portal was a group project which I had undertaken.</p> <p>The main objective of this project was to enable users to monitor the status of the Database clusters. There various Databases (PostgreSQL, MySQL, OracleDB). We had to gather all the stats relating to specific database clusters.</p>	VMware Bangalore

## HOBBIES AND INTERESTS

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My hobbies and interests include:

- Reading books of various genres (particularly science and sci-fi)
- Writing articles (general)
- Writing various articles for my blog --

(To visit my blog, log on to: <https://www.sujaysanjeevpatil.com>)

- Playing football
- Swimming
- Sketching and Painting