AMEYA KARVE

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SKILLS

* **Programming languages**
  * Strong in C/C++ and JavaScript
  * Also programmed in Python, Java, Ruby, C#, CoffeeScript, VBA and Matlab in the past
* **Web technologies and frameworks**
  * HTML, CSS, AJAX, LESS
  * jQuery, Backbone.js
  * Node, Rails, Django, PHP
  * Flight, React, D3
  * MySQL, MongoDB, Neo4J
  * Heroku, Google AppEngine
  * Git, NPM, Bower, Grunt
  * Socket.io, Jasmine
  * Chrome Extensions, Google AppScript
  * PhoneGap/Cordova
  * AMD, CommonJS
* **Android development**
* Working with Arduino boards, Atmega series of microcontrollers
* CAD/CAM software: AutoCAD, Autodesk Inventor
* Languages known:
  * English, Marathi, Hindi: Native
  * Kannada, German, Spanish: Basic

CONFERENCES AND SELECTED PROJECTS

* **Speaker at JSFoo, India's largest JavaScript Conference, Bangalore 2013**
  * **One of 20** speakers (including **5 international** speakers) and the **only student** selected to talk at JSFoo 2013**.** Other speakers were professionals representing organizations like the Mozilla foundation and Microsoft among others
  * Talked on control of motors and servos using the **HTML5 Web Audio API**, **NodeJS** and a **headphone jack.** Links to the talk and the slides at http://ameyakarve.github.io/devResume/
* **Fantasy League for Euro 2012**
  * Built, programmed and ran MyEuroRG, a fantasy league for the Euro 2012 football tournament
  * Over 400 regular users. League was featured in the Bangalore Mirror. Link at http://ameyakarve.github.io/devResume/
* **Icarus JavaScript framework**
  * Wrote Icarus, a framework built over Flight (a component based UI framework open-sourced by Twitter), that extends Flight's state variable to a MVC style Model to enable two-way data bindings
  * Open-sourced the framework. Link to the code at http://ameyakarve.github.io/devResume/
* **Android development projects**
  * Built a location-based Android app for TaxiShout, a Bangalore based startup, to connect the service users with Taxis nearby
  * Worked under Professor Venkatesh Balasubramanian from the Department of Engineering Design, on a project to collect and analyze braking patterns in trucks. Android devices were used as cost-effective sensor modules
  * Conceptualized and coded an Android app to capture pictures on the click of a physical button as a part of a product design course project. Also implemented a simple email server to convert and process the pictures to a PDF file and email it to the corresponding user
* **Open Source contributions** to Twitter's typeaheadJS, AirBnB's Rendr, TodoMVC and Route66 by Guille Paz
* **Thesis Project:** Working on identification of features in 3D point cloud geometries under Professor M. Ramanathan from the Department of Engineering Design

EDUCATION

* **Indian Institute of Technology, Madras**   **2009-14**
  * B.Tech in Engineering Design, M.Tech in Biomedical Design, Minor in Economics
  * CGPA of 7.44
* **Class XII, Oxford School, Bangalore: 87.6%**   **2008**
* **Class X, Oxford School, Bangalore: 93.5%**   **2006**

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INTERNSHIPS	**✱ Autodesk India, Pune** **Jan – July 2013**

✱ Autodesk India, Pune   **Jan – July 2013**
  ★ Worked in the **Autodesk 123D Desktop** team on the conversion of 3-Dimensional triangular meshes to their corresponding Boundary Representation (BRep) forms
  ★ Studied the existing algorithms used for BRep conversions
  ★ Devised and implemented new algorithms to increase the efficiency of the conversion
  ★ Obtained running time gains in the excess of **100X** as the complexity of parts increased
  ★ Wrote in C++ for the Windows and Mac OSX builds. Ported existing algorithms from a C# codebase for a different product
  ★ Rated in the **top 3** intern projects. Awarded a **certificate of achievement** for the work

✱ Idea Telecommunications, Pune   **June – July 2011**
  ★ Worked in the **Idea 3G Vertical**
  ★ Reviewed existing 3G based services, analyzed selling techniques and marketing strategies and gathered feedback from consumers as well as the in-house call center employees
  ★ Gave recommendations to improve product experience and reach in the country

✱ Tata Motors, Pune   **May – June 2011**
  ★ Worked in the **Metallurgy and Material Sciences** division
  ★ Studied the Bauschinger Effect in coiled springs to be used in automotive applications
  ★ Carried out accelerated fatigue testing on the springs in Instron machines at the facility

POSITIONS OF RESPONSIBILITY

✱ Hostel Literary Secretary   **2011 – 12**
  ★ Elected by an electorate of 349 voters. Managed a budget of **Rs. 60,000** over two semesters
  ★ Led the hostel to **first place** in the annual year-long inter-hostel literary and cultural championships (Lit-Soc)
  ★ Conducted sessions to blood in the incoming freshers into various cultural activities
  ★ Built a webapp for better bookkeeping, and to allow residents to borrow books online

✱ Coordinator, Mobile Operations, Shaastra   **2012 – 13**
  ★ Part of the mobile team of the Web Operations Department for Shaastra, the annual technical festival of IIT Madras
  ★ Advised the team on implementations and best practices during the development process

✱ Coordinator, Scrabble and Sports & Entertainment Quiz, Saarang   **2010-11, 2011-12**
  ★ Conducted the corresponding events in Saarang, the annual cultural festival of IIT Madras, as well as the LitSoc in the 2 years

CO-CURRICULAR AND EXTRA-CURRICULAR ACTIVITIES

✱ Scrabble:
  ★ **Chennai Scrabble Open: 33rd** in 2010, **10th** in 2012, in the **country, Pune Scrabble Open: 23rd** in 2013 in the **country;** Links at http://ameyakarve.github.io/devResume/
  ★ Made the **final round** in **4/4** attempts in LitSoc, **3/3** attempts in Saarang
  ★ **1st** place in Paul Fest 2008, St. Paul's school, Bangalore
  ★ Founding member of the college Word Games Club

✱ Quizzing:
  ★ **6th** in Karnataka state, Vijaya Bank Quiz, 2005
  ★ Made multiple finals at school and college level over the last few years

✱ Coding and Robotics
  ★ Finals at **Semi-Autonomous Robotics**, Shaastra 2009
  ★ Finals at Automania, an **Artificial Intelligence** competition, Shaastra 2011
  ★ Founding member of the college Web Operations Club

✱ Sports
  ★ Member of the **hostel football team**, 2009-10
  ★ Successfully ran for **10km** at the **MARG half-marathon**, IIT Madras, 2011