MANIKANDAN MURUGESAN

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A software developer with 8 years of programming experience and excellent analytical and communicational skills

EDUCATION

Indiana University, Bloomington
Masters in Computer Science, 2017
GPA : 3.46/4

Amrita School of Engineering
Bachelors in Technology, 2013
GPA : 7.2/10

ACADEMIC PROJECTS (Github – manikandan5)

- **Weather Predictor**   *Java | Python | JavaScript | NodeJs | REST | RDS | Amazon EC2 | SOA | TravisCI*
  Developed a fault tolerant prototype with multiple micro services and deployed the services on Amazon EC2 instances. The prototype features continuous integration, continuous deployment and load balancing

- **YELP Dataset Challenge**   *Java | GSON | MongoDB | Python | SVM*
  Predicted the category of the restaurant by training the classifier on the business, review and tip information from the given dataset

- **Search Algorithms**   *Java | Lucene | Jung*
  Implemented Indexation of documents, Retrieval algorithm and Query Centric PageRank

- **Operating System**   *XINU OS | C*
  Developed process synchronization, basic memory management, networking and simple file systems to run on a Beagle Bone Black

- **Shopping Website**   *HTML5 | CSS | PHP | MySQL*
  Built a shopping website which lets the user register, view and order the products on the site and an admin panel to monitor the orders and manage the inventory of the site

CERTIFICATIONS

- **Microsoft Technology Associate (MTA)**: Certification in Foundations in IT, Database Management System
- **Cognizant Certified Student Programmer**: IT FOUNDATION SKILLS, 2011-12

TECHNICAL SKILLS

Languages	: Java, Python, C#, C/C++
Web Technologies	: ASP.NET, JavaScript, AngularJS, HTML5, CSS3, Bootstrap CSS, ReactJS
Databases	: SQL Server, RDS, Intersystem Cache, NoSQL : MongoDB
Frameworks	: Django, Jasmine, .NET, DropWizard, Jersey, REST
Tools	: Chutzpah, SIFT, CImg, Lucene, Travis CI, AWS Code Deploy, Maven

WORK EXPERIENCE

Indiana University Bloomington   Aug 2015 – Present
Lead Associate Instructor   *Python | Ruby | SQL | HTML*
Courses: Search Informatics, Python (Basics), Python (Advanced)
- Assist Faculty to prepare study material, assignments, handouts and projects for 250 undergraduate students
- Grade programming assignments while leading the team of 14 Teaching Assistants

Atlas Healthcare Software India Pvt. Ltd, Coimbatore, India   June 2013 –June 2015
Associate Software Developer   *C# | ASP.NET | AngularJS | Bootstrap CSS | HTML5 | Intersystem Cache | MySQL*
Products: LabWorks, Patient Portal, Basic Analysis and Reporting, Patient Result Repository
- Worked on revamping 'Patient Portal' and created an interactive platform enabling the patients to view their medical records represented in various visualizations and statistical plots
- Analyzed the functional specification documents generated by the Product Team, derived requirements and worked towards developing a new module and integrating the module with the existing product
- Worked towards upgrading the product's version without the loss of data, fulfilling sanity check
- Wrote unit test cases in Jasmine framework that ensured continuous integrity of the products

Software Developer – Intern   *C# | Windows Forms | Intersystem Cache*
- Underwent training in HL7 and HIPPA security standards and migrated bug fixes in the product
- Developed an add-on tool to the live application that enabled the physician and the lab attendants to modify the diagnosis codes for different tests and directly saving hours of work improving the work efficiency

VOLUNTEER EXPERIENCES

- *Event Coordinator*- Registration & Hexathlon, Anokha, an Annual Tech fest organized by Amrita Vishwa Vidyapeetham, Coimbatore.
- *Member*, Informatics and Computing Entrepreneurs Association, Indiana University, Bloomington, IN