

7001, Waterman Avenue  
St. Louis, MO(Ready to relocate)

# SASHANK ALLADI

WWW.SASHANK.XYZ

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## EMPLOYMENT

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**R&D Software Engineer, Intern** **bioMerieux** **Jan 2016- Jul 2016**

Vitek 2 Web UI – Full Stack Development

- Web User Interface development using Angular 2. Wrote e2e tests using Protractor.
- Added functionality to REST layer and Back-end.

ARGloS

- Built a Surveillance system to report increasing cases of drug resistant bacteria, monitor epidemics and report unusual bacteria using Java.

AST Engine

- Added functionality to AST Engine that computes MIC of bacteria using C++ and C.

Klone

- Built interface generator to generate Typescript interfaces during build generation from JAVA DTO's to prevent Client-Server Interface mismatch errors. It also reduced development time by 10%.

Other

- Build Machine management and configuration. Created a build process reducing build time by 200%.

**Software Developer** **TCS** **Aug 2014-Dec 2014**

- Developed Internet Protocols VRRP and TWAMP in a team setting.
- Awarded 'Star Employee' for being expert Software Developer.

**Software Developer, Intern** **LLOYD Electric and Engineering** **May 2013-Jul 2013**

- Developed Business Analytic Tools to capture information on Market and Customer Densities, that helped the organization to identify potential new markets to increase sales and improve sales in existing weak markets.
- Designed and Developed Internal Collaborative Software for effective Employee-Customer and Employee- Employee communication.

## EDUCATION

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**St. Louis, MO** **Washington University in St. Louis** **Jan 2015-Dec 2016**

- M.S in Computer Science. GPA: 3.4

**India** **GITAM University** **Jun 2010-Apr 2014**

- B.Tech Computer Science GPA: 4.0
- Won IEEE 'C' programming competition.

## TECHNICAL EXPERIENCE

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### Open Source

- <https://www.npmjs.com/~sashank>- utyls(A Javascript Utility library), ingredient-parser(To identify ingredients and its quantity), gradle-exec(A Javascript plugin to execute gradle tasks from gulp or node).

### Hackathons

- Angular Attack 2016 - Developed a MEAN Stack application (Angular 2) RecipeBook in a team of 3. The developed application allows users to paste their favorite recipes from any website, the application then identifies the ingredients in the recipe and displays nutritional information of the dish and the ingredients. <http://www.angularattack.com/entries/2248-biozombies>

### Projects

- **DISTRIBUTED FILE SYSTEM FOR R-Pi**- Built a rudimentary distributed file system for R-pi. Use hub and spokes architecture(master/slave). Standard functionalities of distributed file system included.

- **LISTOLA** - [FISTULA.HEROKUAPP.COM/HOME](http://FISTULA.HEROKUAPP.COM/HOME)- A unique way to manage to-do lists and other lists. Functionality includes, user authentication(using Auth0 and social login), CRUD operations on lists and tasks, gamification and sharing of the lists. REST API for Client-Server communication, JWT Authentication for REST requests. CSRF Resistant. Developing using MEAN Stack(Angular 2). Gulp for build process and deployment.
- **PACMAN**- Built autonomous pacman bot using Artificial Intelligence concepts: Graph Search, Heuristic Design and Reinforcement learning.
- **MACHINE LEARNING**- Built Digit Recognizer, Spam filter, House Price predictor and played with Iris and heart datasets.
- **COMPUTER ARCHITECTURE**- Wrote Java Simulator for Computer Architecture concepts: Pipelining, Branch Predictors, Cache Simulation, Superscalar and Dynamic Scheduling using gcc-10M instruction trace.
- **HOSPITALITY RATING SYSTEM**-Developed rating system for Hospitality Industry using Java SE, Oracle SQL, web technologies and concepts of spatial data ranking to assign a realistic absolute score for Businesses. Developed custom algorithm for rating process(“aScore”). The algorithm assigns an absolute score on scale of 0-100 taking factors such as Cost, Ambience, Quality and others into consideration. The assigned score deemed to be realistic during user testing.
- **COMPREHENSIVE BUSINESS MANAGEMENT SOFTWARE(IBM TGMC)**- Developed Application from scratch using Java SE, Oracle SQL and Web technologies for Participating in IBM’s TGMC. Functionalities include Inventory Management, Vendor Management, HRMS, CRM and Sales Management. Application was shortlisted by IBM TGMC committee for Final Round.

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#### **ADDITIONAL EXPERIENCE AND AWARDS**

- **Teaching Assistant- Machine Learning:** Hosting TA hours, Grading and building assignments.
- Certificate of Appreciation, bioMerieux,USA.
- Star Employee – TCS
- Certificate of Appreciation, IBM TGMC

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#### **Languages and Certifications**

- C, C++, Java, Typescript, Nodejs, Express, Angular 2, MongoDB, Sass, Bootstrap 4, Machine Learning, Algorithms, Datastructures.
- Microsoft Certified Solutions Developer HTML5, Javascript and CSS3.
- IBM Certified DB2 Associate.

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#### **Research Publications**

- Published a paper related to Cyberforaging - <http://ieeexplore.ieee.org/document/6734926/>