



**Ankith Raj**  
[ankithraj12@gmail.com](mailto:ankithraj12@gmail.com) | (571) 508-9290  
Herndon, VA  
<https://ankithraj.com>



[linkedin.com/in/ankithraj](https://linkedin.com/in/ankithraj)

- ★ **Full Stack Software Developer** with over 5 years of experience in design, development and testing enterprise software applications.
- ★ End to end experience ranging in all aspects - Front-end: **React, JQuery**; Server-side: **JAVA, Groovy, Grails, Python, Django**; Microservices: **AWS Lamda**; Database: **MySQL, Oracle, DynamoDB**; Containerization: **Docker**; Deployment: **AWS Code Deploy, Bitbucket**.
- ★ Exploring implementation of new technologies like *IoT, Blockchain, Artificial Intelligence and Machine Learning* at an enterprise level.
- ★ Enthusiasm for knowledge and ability to adapt and grasp any new language or technology quickly.

## Skills:

**Web Development:** HTML, CSS, JavaScript (React, JQuery, node, Bootstrap, Highcharts, D3, DataTables)  
**Programming** : C, C++, JAVA, Groovy (with Grails), Matlab, Python (Django)  
**Technologies** : Docker, Apache Tomcat, Tableau, Git, Postman  
**Certifications** : AWS Developer, AWS Solutions Architect, AWS Cloud Practitioner  
**Database** : MySQL, Oracle, DynamoDB, S3

## Professional Experience:

### Software Developer

### Talent Plus Inc.

April 2017 - April 2021

Talent Plus Inc. is a Human Resourcing company focusing on psychological and behavioural analysis of candidates. The IT division of the company deals with design, development and maintenance of the systems needed to conduct, score and manage the assessments used for the selection processes.

- Expertise in an *Agile* methodology with Feature Driven Development & Continuous Integration.
- Necessitated in the design and development of:
  - *Talent Bank Core platform* (The 1st point of entry to the talent bank ecosystem)
  - *Talent Mine platform* (The platform for the user to interact with the team and work on goals)
- Led developing integral parts of Talent Bank Core which included authentication, authorization, security, creating/managing - users, clients, orders, results, groups, templates.
- Managed a team to create several user-interactive stateful web pages using React(Hooks) - *Material-ui, GSP, JQuery, JavaScript, Bootstrap*.
- Created user interactive graphs using Highcharts and D3.
- Innovation of multiple robust charting libraries and creation of custom interactive graphs for result viewing and comparison using React and GSPs (Groovy Server Pages).
- Customized jQuery datatables to create listing pages (datatables.js).
- Architected and developed a framework for sharing user results outside the system without requiring authentication.
- Developed a template management platform with *Microservices Architecture* using *JQuery & Grails*.
- Developed server-side APIs using *Grails MVC* and Web Services (*REST*) with *MySQL* database.
- Involved intensively in the software lifecycle process including testing and QA.
- Necessitated containerization of applications into *Docker* and deployment on *AWS Fargate*.
- Developed *Lamdas* using *node.js* on *AWS* to be used as microservices.
- Automated and Integrated a process for syncing orders/results using message driven architecture.
- *Internationalized* Talent Card (Report card describing the individual's talents).
- Proficiency in maintenance of the legacy systems TB5 and TB6 (platforms for user management and conducting/scoring assessments)

**Environment and Tools:** Groovy with Grails, Gradle, Java, Struts, Ant, MySQL, Spring Security, Auth0, HTML, CSS, Bootstrap, JavaScript, React, node, jQuery, Highcharts, D3, Datatables, Tomcat, AWS, Docker

## Software Developer

Apptad Inc.

Aug 2016 - April 2017

Apptad Inc is a consulting firm specializing in enterprise applications in Java and Blockchain Research and Development.

- Worked as a full stack developer to create user interactive web pages using *JSP, Hibernate* and *struts2* with *Oracle 10g* as the backend database.
- Worked on the research team to explore the concepts of *Blockchain* and its application in various fields.
- Created multiple smart-contracts on the *Ethereum Blockchain* using *Solidity*.

**Environment and Tools:** *Java, Hibernate, Struts2, Oracle 10g, Solidity, Blockchain*

## Education:

**M.S, Computer Science, George Mason University, May 2016 (GPA - 3.5/4.0)**

Coursework: *Artificial Intelligence, Operating Systems, Queuing Theory, Performance Analysis of Computer Networks, Analysis of Algorithms, Database Management System*

**B.E, Computer Science, Visvesvaraya Technological University, June 2013 (GPA - 3.7/4.0)**

Coursework: *Digital Logic, Automata Theory, Discrete Math, UNIX, Computer Architecture, Operating Systems, Analysis of Algorithms, Data Structures*

## Freelance Projects:

**Ankith Raj Website (2021)** - Created a SPA(Single Page Application) using React, React Hooks and React Router to demonstrate my abilities and represent my profile. The entire website is populated by a single JSON file.

*Technologies:* React, React Hooks, EmailJS, React Router, MUI, Netlify

**Shreya Nagesh Website (2021)** - Created a SPA(Single Page Application) using React for a professional model to present her pictures and videos

*Technologies:* React, React Hooks, EmailJS, React Router, MUI, Image Viewer, Netlify

**Real Estate Management Website (Ongoing)** - Developing a real estate management system for a medium scale real estate agency for property listing, management and user management

*Technologies:* Python, Django, Bootstrap

## Academic Projects:

**Student Survey Website (2016)** - Created multiple MVC based web applications using Struts 2/ JSF/ JSP/ Hibernate Framework which allowed prospective students to fill out a survey form. The project was deployed on AWS.

*Technologies:* Java, Javascript, Struts2, JSP, JSF, Hibernate, SOAP/REST services, Oracle 10g

**OS/161 Kernel problems (2016)** - Implemented locks, condition variables to solve the classic *Whale Mating* and *Bathroom Synchronization problems*. Implemented process system calls such as *fork*, *execv*, *waitpid*, *exit* and *getpid*. Implemented *Virtual Memory* to manage TLB, read-only text segment and page replacement in OS/161.

*Language:* C

**Creature Evolution (2015)** - Developed a program using a *genetic algorithm* that simulates the real life environment to see how a creature can evolve to become the fittest over the generations.

*Language:* Java

**Checkers game (2015)** - Developed a Game of *Checkers (Draughts)* integrated with an *Artificially Intelligent Engine* that is capable of playing with the user by making an informed decision on its own.

*Language:* Java

**Android Controlled LED Lighting (2013)** - Created a new system that gives the user a more efficient and easy way to control the lights remotely using Android phones.

*Technology:* Android, Arduino C