Ajay Bhatia

Introduction

Senior Software Consultant & Developer having more than 15 years of experience with a demonstrated history of working on complex business application and machine learning problems. Skilled in React, React Native, Flutter, Android, Java, Python, Machine Learning, Django, PHP, C++, HTML, CSS, jQuery and other modern web and mobile libraries and frameworks along servless technologies.

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PROJECTS

v-inspect-dashboard https://vinspect-app-dev.herokuapp.com

Ubiqutous solution for virtual inspections of housekeeping work of private holiday properties across USA using wearable IoT devices

v-inspect-mobile

Ubiqutous solution for virtual inspections of housekeeping work of private holiday properties across USA using wearable IoT devices

v-inspect-server https://vinspect-server-dev.herokuapp.com/api

Ubiqutous solution for virtual inspections of housekeeping work of private holiday properties across USA using wearable IoT devices

codebase https://codebase.cc

A/B Testing clients analytical tool developed in MERGN and Google APIs

Visory Health https://www.visoryhealth.com

Visory Health web app to search for the availability of drugs with their alternatives, for lowest price across all pharmacies which have contract with Visory Health all over US

Visory Health Mobile Apps Available in both App Stores

Visory Health mobile apps to search for the availability of drugs with their alternatives, for lowest price across all pharmacies which have contract with Visory Health all over US

CCAP

Visory Health Customer Care Admin Portal for Pharmacy Benefit Management

Syndee Available in both App Stores

Families rely on Syndee to plan and run their households - from everyday chores to once in a lifetime moments. You don't have to start with a blank sheet of paper ever again - whether it is home organization or maintenance, vehicle maintenance, childcare, celebrations, side hustles or any one of the other infinite household activities, Syndee community has a plan to get you started. Syndee community - your neighbors, friends and "home celebrities" - will help you discover projects to level up your life, and give a plan (a.k.a Syndee recipes) to help you tackle your goals. Developed

using MERNGN stack.

SmartStudy CRM

Customer Relationship Management (Immigration) for SmartStudy Group

NimbusSmart

NimbusSmart is mobile app for CT Public School, Jalandhar. This app is developed in Flutter and .Net Technologies.

ShriBalajiSchool

The parents can connect with their school by using this app. The app is the best platform to view the announcements of notices, circular and events to be held in the school. It is a reliable and convenient way of conveying important or urgent information to parents. This app is built using Flutter

DPC: Digital Platform for Credentials (Govt. of Punjab)

Digital Platform for Credentials for Universities of Punjab

 ${\bf AHPS\ Pathshala}\ https://play.google.com/store/apps/details?id=com.ahpshoshiarpur.pathshala.$

AHPS Pathshala is a mobile application made for the stakeholders of Academic Height Public School and Bachpan Play School. Using this app parents can monitor the progress of their ward in the academic activities, view their daily attendance, daily work done in class, view online test results of online quiz through app, important events and time table. Students can give scheduled tests, submit assigned homeworks, attend online classes, chat with their subject teachers, view notes by subject teachers, watch video notes posted by subject teachers, daily quotes, random math facts, random vocabulary with meaning and example and watch suggested videos. Teachers can post daily attendance, daily classwork, homework, video lectures, deliver online class, create tests and chat with students.

The app is developed majorly in React Native and firebase.

AHPS Pathshala Web Admin https://ahps-sap.web.app/.

AHPS Pathshala (foremly AHPS SAP) is a web-admin for AHPS Pathshala mobile app. Admin and Teachers are the members who has direct control to the application for managing various activities to be posted, administrate and manage by the schools staff, teacher and admin. The app is made using React as front-end with firebase as a backend for managing data, resources, cloud functions, hosting and push notifications.

AHPS Pathshala Video Conferencing Platform https://pathshala.ahpshoshiarpur.com.

AHPS Pathshala Video Conferencing Platform is a self-managed and self-hosted Learning Management System (LMS) for teaching remote students online. It offers audio/video sharing, presentations with extended whiteboard capabilities - such as a pointer, zooming and drawing - public and private chat, breakout rooms, screen sharing, integrated VoIP using FreeSWITCH, and support for presentation of PDF documents and Microsoft Office documents. It uses the browser's support for web real-time communications WebRTC to send/receive audio, video, and screen.

AHPS Accounts https://accounts-ahps.web.app/

AHPS Accounts is an accounting web based management application for managing student fee with features like fee headers management, fine management, concession management, various fee reports - default lists, fee cards, fee history, cash management. Accounting and management for other stocks of school is work-in-progress. The app is made using React and firebase as a part of AHPS Pathshala ecosystem.

Emotify Dashboard (Work in Progess) https://www.goemotify.com/.

Emotify Dashboard is a user reaction and engagement tool for online publishers, news websites and blogs, powered by AI. It is basically emotional intelligence for user's website. The product is owned by Emotify which has working production version which is made in RoR and PostgresSQL. The project under my development is a next release which in using React, Firebase, Apollo GraphQL server and MongoDB as a technology stack.

Emotify Comments Widget (Work in Progess)

Emotify Comments widget is the part of whole emotify ecosystem which is basically a commenting system for users on the stories (pages) posted. The whole project has micro footprints and is being developed using Preact, Firebase, Apollo GraphQL Server (with subscriptions) and MongoDB.

OnThisDay https://play.google.com/store/apps/details?id=com.ajaybhatia.onthisday.

On This Day is a history tracking app which shows various events happened on specific day ranging from births, deaths, anniverseries to all historical events. Typescript, Apollo Server, Apollo Client, web-scarping and React Native are used as main technologies.

EMGTickets http://emgtickets.com/.

EMGTickets is an ubiquitous event ticket reservation system developed for Elevated Media Group, a canadian ticket marketplace company which also manages various events across Canada and USA. Using this product user can view the various upcoming events, it's SVG map, can book a seat by relocating on visual map and gets regular notifications. The app is available both on web and mobile.

The main technology stack used to develop this product is Meteor reactive framework with React and React Native as frontend.

BidMyStay https://play.google.com/store/apps/details?id=com.bidmystay.

BidMyStay is a cross-platform mobile application for both Android and iOS. Using this app a user can book properties, villas, hotels, and other accommodations on the basis of bid placed. This product belongs to QuartetVision. This product is developed in React native with backend provided by the contract company.

GSTNext https://gstnext.herokuapp.com/.

GSTNext is a cross-platform and cloud based solution for managing GST with Inventory Management, Billing, and Accounts Management for small shops. This is a personal product made using Meteor and Blaze.

YuPlayGod Downloads (Official) http://download.yuplaygod.com/.

YuPlayGod Downloads is a web app for maintaining various ROM builds for YU series of smartphones. This project was a part of contract with Informatics Ltd. This project is purely developed in jQuery with web scraping from their own servers without writing any API server.

YuPlayGod Developers (Official) http://developer.yuplaygod.com/.

YuPlayGod Developers is a web app for Project Highway by YU Televentures for YU smartphone developers and collaborators where they can follow the set standards laid down by YU Televentures to develop and release a ROM for their smartphones, It is like a continuous integration tool for ROM and release management. The project was made in PHP using Laravel Framework and MySQL backend.

Kesari Pane http://www.kespripane.com/.

Kesari Pane is a punjabi dictionary and search engine for the people who want to connect with each other in native language punjabi. The project is owned by NRI whois residing in USA and part of his charity programme towards punajbi and sikh literature. The project is developed in pure PHP with MySQL.

TPEngine http://tpengine.com/

TPEngine is the web application for handling and implementing Fuzzy Cognitive Maps for real-time/life scenarios. It uses The Possibility Engine API as back engine. This is fully data-driven web application made in full-stack web framework Java Server Faces 2.2. The web container and server used to deploy this web app is Glassfish. The project is developed for Thicket Labs LLC, NY as a part of UN funding project.

The Possibility Engine

The Possibility Engine is a library for Fuzzy Cognitive Maps in Java for Thicket Labs LLC, NY as a part of TPEngine. The project is developed single handed with the inputs from Troy University Research Team, Alabama, USA.

Xtreme Kernels

First-Ever Kernel Worldwide (Xtreme Series by screen name andiroxu for MediaTek 6577 Based SoC Phone Brand MicroMax, Model Canvas 2, which supported Jelly Bean (4.2.x-4.3.x) with multiple features and optimizations for RAM, Camera, WiFi, File System and Battery

Project Xtreme

Project Xtreme - a very popular MOD for android devices which was very popular on XDA Developer Forum with screen name *andeveloper*

Xtreme Booster

Xtreme Booster, is a memory management android app for rooted devices. A very popular app on XDA with screen name and evel oper

EDUCATION

Punjab Technical University, Jalandhar INDIA

Pursuing Ph.D. Computer Science, September, 2012 (Pre-Thesis).

- Dissertation Topic: "Pattern Analysis of Physical Activity Data using Computational Approach"
- Advisor: Rajeshwar Singh, Ph.D., Campus Director, DKTGI, Shaheed Bhagat Singh Nagar, Punjab, INDIA

University Grant Commission, New Delhi INDIA

National Eligibility Test for Junior Research Fellowship and Eligibility for Assistant Professor, December, 2012.

The ICFAI University, Dehradun, Uttarakhand INDIA

Masters of Computer Applications, September, 2007

Guru Nanak Dev University, Amritsar, Punjab INDIA

B.Sc.(Information Technology), May, 2004

Machine Learning (Coursera), Stanford University, USA, Fall Summers 2015

Honors and Awards Guest Speaker, Google Flutter & Cloud, Various Organizations, 2018-2019

Best Contributor, Education & Admissions, RBGI, 2019, Voter Awareness, Voter Carnival, District Adminstration, 2017

Best Motivator, District Administration & District Welfare, 2016

Technology Contributor, ERP System, CT Group, Jalandhar, 2009

B.Sc.(Information Technology) with Disctinction, 2004

First Position in University Examination, 2001-2004

Professional Experience Software Consultant & Freelancer

August, 2004 - Current

Aexonic Inc, USA Senior Full Stack Developer - Consultant

January, 2021 - Present

Google, INDIA Google Community Lead

September, 2019 - Present

Google, INDIA Google Cloud Platform Facilitator

January, 2019 - August, 2019

Google, INDIA Machine Learning Crash Course Facilitator August, 2018 - December, 2018

Micromax Informatics Ltd., 90-B, Sector 18, Gurgaon 122015, INDIA Technical Consultant

June, 2016 - December, 2017

Consultation of various internals of development in Mobile and Web apps like http://download.yuplaygod.com and http://developer.yuplaygod.com

Thicket Labs LLC, 67 West Street Brooklyn, NY 11222 Senior Software Developer & Project Manager

May, 2014 - March 2016

Designed and Developed *The Possibilty Engine* - A comprehensive solution to manage human complexity

RESEARCH INTERESTS Android Platform, Medical Informatics, Decision making, Mathematical modelling, Fuzzy systems, Optimization techniques, Linux Kernel tunning and optimization

Refereed Articles Singh, R., Singh, R., Bhatia, A. 2018. Sentiment analysis using machine learning techniques to predict outbreaks and epidemics, International Journal of Advanced Science and Research, 3(2), pp 19-24.

Mago, V.K., Mago, A., Bhatia, A., Bhatia, N. 2012. Clinical Decision Support System for Dental Treatment, Journal of Computational Science, 3(5), pp 254-261, Elsevier.

Bhatia, A., Singh, R., Mago, V.K. 2011. A Decision Making System for the Treatment of Fractured Tooth, Journal of Computer Science, 1(2), pp 1-3.

Mago, V.K., Devi, S., Bhatia, A., Mehta, R. 2010. *Using Probabilistic Neural Network to Select a Medical Specialist Agent*, Multi-Agent Systems for Healthcare Simulation and Modeling: Applications for System Improvement, USA. pp 164-177

Mago, V.K., Bhatia, A., Prasad, B., Mago, A. 2009. A Fuzzy Expert System for Decision Making in the Treatment of Broken Tooth, International Conference on Artificial Intelligence and Pattern Recognition. Florida, USA. pp 268-277

Mago, V.K., Devi, M.S., Bhatia, A., Mehta, R. 2009. *Using Probabilistic Neural Network for Selection of a Super Specialist Medical Agent*, Multi-Agent Systems for Health Care Simulation and Modeling. IGI Global, USA, pp 164-177.

Mago, V.K., Prasad, B., Bhatia, A., Mago, A. 2008. A Decision Making System for the Treatment of Dental Caries, Soft Computing Applications in Business, Studies in Fuzziness and Soft Computing. B. Prasad Eds., Springer-Verlag, Germany, pp 231-242.

Conference Presentations

Bhatia, A., Kumar S., Mago, V. K. Gradient: A User-Centric Lightweight Smartphone Based Standalone Fall Detection System. 17th Portuguese Conference on Artificial Intelligence. EPIA Conference 2015. Sep., 2015. Proceedings in Springer, LNAI Series.

Bhatia, A.; Punjab Tech. Univ., Kapurthala, India; Mago, V.; Singh, R. Use of soft computing techniques in medical decision making: A survey. Advances in Computing, Communications and Informatics. ICACCI 2014.

TECHNICAL SKILLS

- Languages: C, C++, Java, Python, Node, Ruby, MATLAB, ASP.NET, C#.NET, Unix Shell Scripting, HTML, CSS, JavaScript, jQuery, Bootstrap, PHP, XML
- Frameworks/Libraries: React, React Native, Flutter, Angular (2 Onwards), Vue.js, Meteor,
 Django Framework, Flask Micro-framework, Rails Framework, web2py Framework, JSF Framework,
 Laravel Framework, CodeIgnitor 2 Framework
- Machine Learning: Fuzzy logic and Neural Network toolboxes in MATLAB, all major APIs in Python and Java for Neural Networks, Fuzzy logic, Fuzzy Cognitive Maps
- Databases, Servers & Applications: Mongo, MySQL, Postgres, MS-SQL Server, Apache Webserver, GlassFish Application & Webserver, Apache, Apache Tomcat, IIS, LATEX, Spreadsheet, and Presentation software
- Cloud Services: DigitalOcean, Heroku, AWS, Google Cloud
- Operating Systems: Gnu/Linux (Primary), Unix (BSD), Windows, Mac