

ARUP ARCALGUD

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PROFILE

A software engineer with experience in full-stack development through web and mobile frameworks, seeking opportunities to learn and build on web and mobile platforms while providing great user experiences.

EDUCATION

Georgia Institute of Technology – M.S. Computer Science

Aug 2018-May 2020

- Specialization in Interactive Intelligence, 3.77 GPA

University of Wisconsin – Madison – B.S. Computer Science

Aug 2013-Aug 2017

WORK EXPERIENCE

Graduate AI Research Student

May 2019-Present

Georgia Institute of Technology – Atlanta, GA

Working in a project group under Professor Ashok Goel on designing a frame-based AI agent with the focus on providing suggestions and generating questions for first time startup founders regarding their business model.

- Designed a new UI in Adobe XD, developed a working prototype in HTML5, CSS, JavaScript, and Python Flask
- Derived 20+ concept frames from business model canvas case studies, used Postgres to store concept frame values as the knowledgebase for our AI agent
- Used Python natural language processing (NLP) libraries to parse user inputs and compare them to the knowledgebase we created, allowing our AI agent to form accurate questions and suggestions regarding the input sentences

Full-stack Developer

Feb-Aug 2018

Allianz Life – Minneapolis, MN

Helped plan for transitions to newer web frameworks with focus on scalability and support with enterprise architecture teams.

- Planned, designed, and delivered a prototype full-stack web application within 2 months, with MongoDB, Node.js server, and JavaScript frontend (MongoDB, Node.js, Embedded JavaScript, Express.js) to showcase scalable web technologies
- Web app allowed 140,000+ IT and non-IT employees to familiarize themselves with the 100+ technologies and tools at Allianz Life
- Used continuous integration via Docker containers and Jenkins to reduce deployment time

Front-end web development as part of a cross-functional Agile feature team, focused on the Allianz Life customer portal.

- Introduced JavaScript unit testing tools, methods, and standards for front end development (Mocha, Chai, jQuery mocks)
- Implemented design changes to provide a more user-friendly, visually appealing interface (HTML, CSS, jQuery, .NET, Git)
- Tracked and resolved code issues using Atlassian's JIRA, fixing well over 50 existing issues in website source code

UX Design Intern

Nov 2017-Feb 2018

Stage1818 – San Francisco, CA

Worked with an early stage startup that provides a rapidly growing online platform for upcoming artistic talents to find auditions with entertainment directors and producers.

- Visualized and conveyed 5 feature design changes via HTML mockups, provided a more user-friendly visually appealing interface
- Implementing marketing and product feature tactics for user retention and adoption; conveyed tactics such as viral social media marketing and branding

Product Design Intern

Sep-Oct 2017

Tiger Lilia – Sunnyvale, CA

Worked with an early stage startup focused on providing language learning tools for young children. Helped visualize marketing and distribution methods. Developed a prototype mobile application.

- Helped adoption of app with 3 private investors
- Designed 3 new product features (drag and drop, voice interaction, pop-outs) & prototyped mobile application on the iOS platform

Software Development Intern

Jun-Aug 2016

Zephyr – Newark, CA

Used Agile methodology to develop and test Linux and Microsoft server-side scripts for facilitating customer database backup and restore. Collaborated across departments (Product Development, QA, Client Services) to gather customer requirements and deliver effective solutions

- Debugged and solved 5-10 issues a week while testing RESTful API calls to prove robustness and functionality of features
- Provided 2 new features for the Zephyr Cloud 4.8 product release (Aug 2016) – database backup, database restore on Windows, Linux
- Delivered customer-centered features to help facilitate ease of use – developed feature for customer data backup and restore that extended compatibility to numerous database vendors (MySQL, PostgreSQL, Oracle, NoSQL)

PROJECTS

Pond – The App for Meeting New People

Jan 2019-Present

Ionic, Node.js, MongoDB

In the process of designing and developing a social app that allows users to sign on and meet new people every day in their free time. The app follows the design trend of friend-making apps such as Bumble BFF, but users are randomly assigned matches based on daily availability. No swiping, no time wasted on the app – our focus is to get people to meet and make connections in person! Future features include a chat feature, location selection, and curated matching.

- Validated designs with user research and data, iterative user research
- Transformed conceptual ideas into actionable flows, mock-ups, and prototypes

P O S T

Dec 2017-Feb 2018

iOS Swift, Google Firebase

Designed and developed an iOS native app in Swift with a Google Firebase database. App stores shareable notes on the Firebase cloud that friends, family, coworkers can access through their iPhones, and edit/contribute to the list. App features include custom user profiles, custom user notes, friends and followers. Future features include sharing of notes via social media.

- Problem assessment, solution conceptualization, mock-ups and development

CAPABILITIES SUMMARY

Web and Mobile:

- HTML5, CSS, Bootstrap, Apache Cordova, Google Firebase, Slack, Atlassian JIRA, GitHub Tools
NodeJS, React, Embedded JS, Python Flask, MongoDB, Mocha + Chai Unit Testing Frameworks, Java 8, Android OS, iOS

UX Design:

- Iterative user research, prototyping, mockups, development, design validation with user data
- Adobe XD, InVision, Sketch, XCode

Data Science:

- Python, TensorFlow, Keras Datasets, Pandas, Numpy, Matplotlib, SciKit-Learn
Decision Trees, Neural Networks, K-Nearest Neighbors, Clustering, Feature Selection, Dimensionality Reduction, C