

Adarsh Alangar

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EDUCATION

- **State University of New York at Stony Brook** Stony Brook, NY
Master of Science in Computer Science; GPA: 3.8 *Aug. 2018 – (Expected) Dec. 2019*
 - **Coursework:** Asynchronous Systems, Fundamentals Of Computer Networks, Artificial Intelligence, Analysis of Algorithm, Teaching Assistant - Fundamentals of Computer Science
- **Visvesvaraya Technological University** Bangalore, India
Bachelor of Engineering in Computer Science; First Class with Distinction *Aug. 2012 – July. 2016*

EXPERIENCE

- **Amadeus IT Group** Bangalore, India
Software Engineer *Jul 2016 - Aug 2018*
 - **Back End Architecture and Implementation:** Designed and created Service Oriented Architecture (SOA) based C++ and Python Back-ends for handling high volumes of traffic. Deployed the back-ends on Amadeus's Cloud Service. The back-ends orchestrated traffic between multiple components handling SOAP and REST messages.
 - **Performance Optimization:** Optimized back-end to reduce run-time by up to 60%. Reduced the memory footprint of Hotel Configuration cache by 50%.
 - **Auto cancellation of bookings:** Modified multiple code repositories owned across countries for the Hotel Distribution team to allow a time-triggered cancellation of unconfirmed PNRs.
- **Aapkapainter** Bangalore, India
Full Stack Developer Intern *Jan 2016 - Mar 2016*
 - **Customer Relationship Management:** Created a custom CRM and billing module, providing customers with real time project updates and billing information.
 - **Database Design:** Built a scaled down version of an e-commerce platform to distribute paints. Designed and implemented the database for existing and future requirements for the e-commerce platform.
 - **SMS Integration:** Integrated SMS service for instant status updates. Modified the UI and back-end to create new search bars, landing pages and price calculators.

PROJECTS

- **DNS Resolver:** Built a Domain Name System (DNS) resolver and implemented a tool similar to *dig*. Implemented DNSSEC, the security extension for DNS. The tool successfully identifies whether a website has DNSSEC implemented, and resolves the DNS request if it has.
- **Personalized Market Predictor and Analyzer:** Created a Python based AI engine to provide users with personalized stock purchase suggestions, price predictions and risk analysis. Classified users based on risk taking patterns and matching them with appropriate portfolios.
- **Koinex Skill for Amazon Alexa:** Created an Alexa skill (app) that allows users to issue voice based commands to inquire the prices of trending cryptocurrencies. Hosted on a secure Amazon AWS EC2 instance.
- **University Result Crawler:** Built an automated web-crawler to extract, analyze and present students exam results in a friendly manner. Provided students with the ability to compare results and visualize statistics.
- **HTTP2 Resource Prioritization:** Built a visualization tool based on HTTP2 specifications to understand how Firefox and Chrome prioritize resources. This information was used to implement a custom prioritization schema by overriding request order at the server side.

PROGRAMMING SKILLS

- **Languages:** C++, Python, SQL, PHP, JavaScript
- **Technologies:** Linux OS , Docker, MYSQL, Oracle DB, JQuery, GDB, Flask Framework, Amazon Alexa Skill Development, CodeIgniter, Wireshark, Jenkins, REST Services , XML , AWS EC2 , Agile Development, HTTP, HTTP2