Rinkal Agrawal

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EDUCATION

UNIVERSITY OF MINNESOTA

B.S. in Computer Science
May 2017 Graduate | CGPA: 3.64/4.0
Dean's List recipient for all semesters

SKILLS

LANGUAGES

Java • Python • Typescript • Swift • C# • HTML5 • CSS3 • JavaScript • C/C++ • MySQL

FRAMEWORKS

Angular 6 • Node.js • PyTorch • Xcode • Express.js • Bootstrap4 • MongoDB • React • .Net

STRONG KNOWLEDGE

Microservice Architecture • REST • Unit Testing • Product Ownership • NPM packages • Agile Methodology • Github • Tomcat • Eclipse

WORKING KNOWLEDGE

Neural Networks(MLP, CNN, RNN) • Anaconda • RabbitMQ • Twilio API's • AWS • Firebase • MVC • MVVM • Multi-threaded Programming • Google Cloud API's• PHP •

RESEARCH

UNDERGRAD RESEARCHER

U of M Software Engineering Center Aug '16 – Dec '16

- Worked on a NASA project under Prof. Sanjai Rayadurgam to display the autonomous applications of a quad copter drone by using a pix hawk hardware with tweaked octocopter software.

COURSEWORK

Advance Algo and Data structures
Intro to Deep Learning
Software Design and Development
Artificial Intelligence
Internet Programming

INTERESTS

- Mentoring students w/ CoderDojo
- Networking events and webinars
- Reading and Writing blogs
- Outdoors, Roadtrips and Hiking

EXPERIENCE

SOFTWARE ENGINEER II

Nov '18 – Present
Software Engineer I June '17 - Nov '18
CenturyLink

- Built a data-driven application using Angular6, and Java on node.js to provide a front-end for inventory, leading to 40% less error tickets over 6 months. As a product owner, decided feature directions, worked with users to gather requirements and feedback.
- Implemented an automation solution in Java for SD-WAN technology by working with different business units, resulting in decrease in device activation time from 30+ minutes to just over 2 minutes.
- Built a server-side routing engine using javaScript and json on express.js to route the incoming traffic based on the request, resulting in over 20% decrease in client server load.
- Increased the legacy server engine efficiency by 4 folds by rewriting the algorithm using SNMP technology.

SOFTWARE DEVELOPER INTERN

Design Ready Controls Inc. June '16 – June '17

- Worked on windows desktop applications using C# and .Net that helped electrical engineers better and faster design control panels, reducing the panel delivery time by almost 20%.
- Designed and implemented the UI for the android app for an R&D project that let users see the field sensors data in real time using AWS.

PROJECTS

SPY | web app for monitoring team's success

Independent Work project, 9 weeks | Angular6, Java

- Designed and built the app to let team members post their project successes.
- Lets other people within the company view posted achievements and other project related statistics from an elegant dashboard.

STYLE TRANSFER | CNN to transfer image style

Independent project, 2 weeks | Python, PyTorch

- Designed a Convolutional Neural Network using a pre-trained VGG19 model to transfer the style of one image onto the content of another image generating a completely new image.

VIDEO MESSENGER | Web app for hearing impaired students

Non-Academic Team Project, 13 weeks, team of 4 | React

- Designed and built to conduct an on-line class of hearing impaired students by implementing video messaging recorded in sign language to help improve their university experience.

BITCOIN TRACKER | iOS app for tracking bitcoin prices

Independent project, 3 weeks | Swift, MongoDB

- Designed to track bitcoin prices and it's market demand. Added a feature to provide customized notifications based on the user filled price range.

LANGUAGE TRANSLATOR | CDAL to C++ Code translator

Academic Project, 15 weeks, team of 2 | C++

- Built a compiler to translate 'Climate Data Analysis Language' code into C++ code using regular expressions. Extensively utilized unit testing to verify correctness.