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**Tejasvi (Teju) Nareddy**

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Backend engineer with experience in Cloud Computing & Distributed Systems [www.tejunareddy.com](file:///C:\Users\tejun\Dropbox\Main%20Files\Employment\www.tejunareddy.com)

# EDUCATION

## Georgia Institute of Technology *August 2015 – May 2019*

* GPA: 4.00 / 4.00
* Pursuing a Bachelor’s in Computer Science with concentrations in Cloud Computing and Artificial Intelligence

# PROFESSIONAL EXPERIENCE

## Georgia Institute of Technology – Technical Interview Coach *August 2018 – Present*

* Offer résumé feedback and mock technical interviews to undergraduate and graduate computer science students

## Google Cloud Platform – Software Engineering Intern – Apigee *Summer 2018*

* Improved customer experience on our IPAAS offering by creating a framework to increase connector consistency
* Designed a new scalable, distributed service that allows customers to publish connectors on Google Cloud Platform

## Amazon Web Services – Software Developer Intern – Elastic Map Reduce *Winter & Spring 2018*

* Designed and implemented a feature that allows customers to monitor the health of applications on an EMR cluster
* Integrated my feature with industry-standard big data applications, such as Hadoop, Spark, and HBase
* Collected metrics and worked with product management to minimize compute resource utilization

## Georgia Institute of Technology – Head Teaching Assistant – Intro to Artificial Intelligence *All of 2017*

* Taught students about Machine Learning, Markov Decision Processes, Probabilistic Reasoning, and Classic Search
* Empowered other TAs by coordinating tasks and ensuring transparent communication with the professor
* Created new projects, held office hours, ran review sessions, and provided students with the tools to succeed

## Salesforce – Backend Software Engineering Intern – IoT *Summer 2017*

* Designed and implemented a scalable, distributed self-serve product that generates HTTP load for benchmarking
* Enabled engineers to setup latency and performance tests in 1/10th of the time it would have taken previously

## Salesforce – Backend Software Engineering Intern – Infrastructure *Summer 2016*

* Developed a RESTful distributed web service in Java that maintains fixed-size pools of AWS EC2 instances
* Reduced AWS virtual machine spawn times for F5 BigIP Load Balancers by ~50% (20 minutes)

## Georgia Institute of Technology – Tutor – Intro to Object Oriented Programming *Spring 2016*

* Directed 1-on-1 tutoring sessions with Georgia Tech students taking Intro to Object Oriented Programming in Java
* Taught students about Inheritance, Polymorphism, Data Structures, Algorithms, Generics, and Big O

# ACTIVITIES

## Full-Stack and Backend Developer for GT Bits of Good *August 2017 – Present*

* Worked in an agile team of 5 students to build a full-stack tutoring platform for a non-profit in the Atlanta area
* Applied software design methodology and full-stack development using Mongo DB, Express, Node.js, and React
* Documented lessons learnt and tips for other developers via [a blog post](https://medium.com/hack4impact/what-we-learned-from-building-an-app-to-connect-low-income-students-with-tutors-66a92a2ce3a) that reached hundreds of readers
* Run bootcamp classes and teach freshman / sophomores full-stack web development principles

## Teacher and Facilitator for Girls Who Code *June 2017 – December 2017*

* Taught middle school girls basic software engineering skills in Git, HTML, CSS, JavaScript, and Python
* Mentored a small group of students in creating their own Facebook Messenger chatbot and scratch game

## Core Officer and Developer for GT Mobile App Development *August 2015 – February 2017*

* Instructed and led a group of 7 people in backend development of Android applications
* Taught lessons on Android Studio, API endpoints, and integrating OkHttp into an Android app
* Organized, advertised, and mentored at Georgia Tech’s annual Appathon, HackGTweeny, and Bootcamp

## Developer on RoboJackets Intelligent Ground Vehicle Competition *August 2015 – October 2016*

* Programmed an autonomous robot to navigate an outdoor obstacle course with Open Computer Vision in C++
* Constructed a module to detect “potholes” using image transformations, contour processing, and color filtering

# RESEARCH EXPERIENCE

## Active Safety for Autonomous and Semi-Autonomous Vehicles *Fall 2016 – Winter 2017*

* Worked with multiple Ph.D. candidates to research human interaction with active safety methods in vehicles
* Served as the team lead for 9 undergraduates on the software simulator side of the research project
* Developed intelligent bots to emulate realistic traffic and adapt to human behavior over time
* Integrated technology for running human-in-the-loop experiments while still allowing semi-autonomous control

# COMPLETED PROJECTS

## Discover Reward Notifier: Chrome Extension – JavaScript *March 2018 – Present*

* Maintain a beginner-friendly open-source project to encourage, inspire, and mentor first-time contributors
* Provided feedback on code, documentation, and processes to ~25 open-source contributors

## Hadoop Job Duration Prediction: Neural Net Prediction API – Python, Java, Bash *February 2018*

* Collected and processed production data about Hadoop usage to train a xgboost model and predict job times
* Demoed a realistic customer use-case by integrating our prediction endpoint into the AWS EMR CLI

## QuizLingo Voice Assistant: Google Assistant & Alexa Skill – Node.js, NoSQL *June 2017 – January 2018*

* Won the Actions on Google Developer Challenge, **officially recognized** on the [Actions on Google Website](https://developers.google.com/actions/challenge/)
* Developed a voice assistant skill that quizzes English speakers on vocabulary words in foreign languages
* Built a Google Dialogflow model for natural language processing and slot-filling responses to user messages

## Logo Lens – Microsoft HoloLens App – C#, Python, SQL *September 2016 – January 2017*

## Won HackMIT, demoed our application to NASDAQ’s CTO Brad Peterson, and was featured in [a news article](https://www.scs.gatech.edu/news/587332/college-computing-undergrads-demo-app-nasdaq-execs-part-hackathon-prize)

## Created a proof-of-concept app for the Microsoft HoloLens that overlays company info next to logos

## Used image manipulation and Google Vision APIs to determine a company name from logos in the environment