

## Naga Ganesh Singh Kurcheti

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### EDUCATION

**Master of Science in Computer Science** | University of Florida | Gainesville, FL **May 2021**  
**Bachelor of Technology in Computer Science** | Acharya Nagarjuna University | Guntur, India **April 2017**

### SKILLS

**Programming Languages:** Java, JavaScript, C++, C#, Golang, HTML/CSS  
**Frameworks:** ReactJS, .NET Frameworks, Ruby on Rails, Angular, gRPC, Truffle, GTest  
**Database/Tools:** MySQL, MS SQL Server (T-SQL), Oracle (PL/SQL), AWS, Azure, Jenkins

### PROFESSIONAL EXPERIENCE

- Tesla | Senior Software Developer - Golang and ReactJS** **April 2023 - Present**
- Scaled line-side software for operators to support building Model Y and Cybertruck, resulting in at least ~10% production increase.
  - Improved activity tracking and tool-controller microservices, yielding ~30% less debugging time, and doubling data processing speed.
- Google | Software Developer - Java (Android) and C++** **July 2021 - April 2023**
- Architected and developed **Google Assistant's Arbitration** client-side logic for Pixel devices, achieving 84% initial accuracy.
  - Slashed Google Assistant's listening device identification time by ~30%, increasing Arbitration reliability by at least 10%.
  - Authored 3 major and ~5 minor design documents to scale and improve performance of Arbitration logic across multiple Google devices.
- Mercedes Benz Research & Development | Software Developer Intern - C++** **February 2021 - April 2021**
- Enhanced unit test cases for in-car voice assistant using **GTest** and **GMock**, improving overall test coverage by ~70%.
  - Refactored most of the underlying logic for the embedded functions interface and created new component tests framework using **Python**.
- University of Florida | Student Programmer Intern - ReactJS, AWS** **September 2020 - February 2021**
- Led the development of a patient data tracking web portal, using **ReactJS** and **AWS** (lambda, API Gateway, and DynamoDB).
  - Simplified 4+ report generation interfaces into a single, efficient, and generic one, resulting in significant time savings for administration.
- ADP | Software Developer Intern - Angular, .NET** **June 2020 - August 2020**
- Implemented a solution to identify access issues across 15+ micro services, saving ~40 hours developer's time per month.
  - Reduced error resolution time to <1 min with automated client/team emails in case of any application error.
- GGK Technologies (ACS) | Software Developer - JavaScript, Java, Ruby on rails** **July 2017 - July 2019**
- Organized training sessions and evaluated over 50 interns in **ReactJS**, **.NET**, **Angular**, and **AWS**.
  - Elevated Pronto Woven's user interface and admin functionality, resulting in an impressive 50% increase in site speed.

### PROJECTS

- Google Assistant: Multi Device Arbitration (MDA)**
- Developed Arbitration logic for **Android (Java)** devices, increasing accuracy rate by >20% in Android phones and tablets.
  - Crafted design for Arbitration service to future-proof 100% Google Nest devices reaching end-of-life.
- Shylnk** | <https://shylnk.com>
- Coordinated team meetings and architected application structure for web, mobile, and Chrome extension using **ReactJS** and **Ruby**.
  - Devised **Jenkins** script for robust CI/CD pipelines, ensuring seamless application deployment hosted in **Azure** and **AWS**.
- Convert to Client Time Zone** | [https://www.npmjs.com/package/ctoc\\_timezone](https://www.npmjs.com/package/ctoc_timezone)
- Spearheaded the development of a JavaScript library that converts server time to client time zones, within 1ms of post-page load.
  - Integrated time display formatter and utilized callbacks to provide a flexible way of accessing or modifying the time.
- Memory Reciter** | <https://github.com/GaneshKurcheti/Memory-Reciter>
- Performed research on memory allocation, partition, and potential causes for memory leaks in a **.NET** application.
  - Built an open-source tool to monitor class object lifecycles in real-time, enabling the identification and resolution of memory leaks in running applications in less than ~1 minute.
- Pronto Woven: CRM/CMS Project**
- Proposed new architecture that optimizes the product search functionality by automatically displaying the most relevant products first (up to 30+ million) in ~20 seconds.
  - Devised a scalable method for seamless integration of third-party APIs, including **Amazon Marketplace** and **Shopify**.
- EMCOR's Global Project Management: Resource allocation Project**
- Modified the contract price calculator logic in the **ASP.NET** application which increased the speed of contract generation by ~300%.
  - Proposed streamlined solutions for report generation and roles management, resulting in a remarkable 70% growth in end-user adoption.

### AWARDS

**3 Spot bonuses and 5 Peer bonuses** | Google | 2022  
**Employee of the Year, Trainee of the Month, and Innovation Award** | GGK Tech | 2018