

# Wookeun Oscar Song

Software Developer

Languages: English, Korean, Spanish  
Current Residence: New York, NY  
Work Eligibility: U.S. Citizen

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## Work Experience

### Full Stack Web Developer | @ Freelance

January 2022 - Present, Remote

- Implemented secure login system of Number Sense Trainer app using Firebase, which math teachers use for assignments. Feature allowed other features implementation such as leaderboard and personal score history
- Received positive feedback on documentation and technical design citing ease of handoff and later modifications by subsequent project owners that may be technical or non-technical based

### Co-Founder/Software Developer | @ Menos

September 2019 - Present, Remote

- Own the entire software stack including the company website, database, QR code tools and automated inventory system. Implement and deploy software to reduce repetitive and error prone labor which allowed us to better focus our efforts on creative work and the social contribution aspect of the company
- Established a backend server that uses Airtable and Shopify API to auto populate the inventory with validated data flow of nationwide collection and international supply chain to ensure web store is accurate and current

### Software Engineer | @ Pearson

August 2021 - February 2022, Remote

- Developed, implemented and tested accessibility friendly software for Pearson's main product used by school boards across U.S. to ensure examination processes are fair and easy to use for both students and test makers
- Modernized legacy vanilla JavaScript, reducing thousands of lines of code by migrating to ReactJS, which improved the quality and extensibility of the codebase while addressing security gaps in the legacy code
- Identified and investigated software defects. Wrote comprehensive documents for developers which expedited technical implementation and knowledge transfers to technical and non-technical based clients

### Software Quality Engineer | @ Google via Qualitest

October 2020 - August 2021, Remote

- Identified and tracked deficiencies in Google Assistant's legacy data and algorithms. Implemented changes which improved success-result rate of Google Home device actions as well as user experience
- Leveraged multi-cultural and multi-lingual background to analyze technically, linguistically, and/or culturally failed searches and further related diagnosis to identify, isolate, and track bugs throughout testing, which increased success search result by 16% in Korean, 2% in Spanish, and 0.8% in English
- Shaped a project management tool using Smartsheet, which sourced and updated data using Google Workspace API to allow merging of separate tools into one single source of truth to eliminate confusions

### Robotics Software/Electrical Engineer | @ Miracles & Machines

November 2012 - May 2014, Austin TX

- Built software and electrical components of multi-functional robots that drive, catch, collect, carry, and throw objects both autonomously and tele-operationally, assisted by sensor feedback control system that led our team to the finals of competitive tournaments with over 300 international competing teams
- Managed cross-functional integrations between mechanical, electrical, and software components to successfully assemble the project into the final fully functioning robots with minimal defects

## Skills

Frameworks/Libraries: NodeJS, ExpressJS, ReactJS, Bootstrap

Languages: JavaScript, HTML, CSS, SQL, LabVIEW

Tools: Git, MongoDB, PostgreSQL, Netlify, Heroku

## Education

### Flatiron School | Software Engineering Certificate

September 2019 - January 2020, Austin TX

Relevant Classes: Object-Oriented Programming, Product Management, Frontend and Backend Frameworks

### The University of Texas at Austin | worked towards Computer Science, B.S.

Fall 2014 - Fall 2017, Austin TX

Relevant Classes: Computer Organization and Architecture, Data Structure, Discrete Math for C.S, Calculus