

# HEEJU KIM

Full Stack Developer

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## EDUCATION

<b>TSINGHUA UNIVERSITY</b> <i>Bachelor's of Science</i> <b>Electronic Engineering</b> / Beijing Government Scholarship	Sep. 2018 - Jul. 2022 Beijing, China
<b>UNIVERSITY OF WASHINGTON</b> <i>Master's of Science</i> <b>Computer Science (GIX)</b> / GPA 3.88	Sep. 2022 - Mar. 2024 Seattle, WA

## WORK EXPERIENCE

<b>SOFTWARE DEVELOPER INTERN</b> — <b>BETACOM INC.</b>	Jul. 2023 - Aug.2023
· <i>Data analysis</i> on 5G private network of Betacom with <i>AI/ML</i> methods, identify and fix vulnerabilities of the network for enhanced security.	
<b>SOFTWARE DEVELOPER</b> — <b>ACY.FINANCE</b>	Jan. 2022 - Sep.2022
· Delivered <i>sub-second</i> updating <i>Tradingview</i> charts with <i>100K+ candlesticks data entities</i> using <i>Axios HTTP requests</i> , <i>websockets</i> along with <i>process management</i> increased <i>50% memory efficiency</i> .	
· Developed frontend with <i>React.js</i> and <i>Typescript</i> , refactored <i>10K+ lines</i> of code and implemented <i>unit testing</i> to deliver iterations user-oriented UI and enhanced transaction security.	
· Displayed <i>8K+</i> token information in optimized timeframe using <i>buffers</i> and <i>process management</i> .	
· Developed <i>Solidity Smart Contracts</i> for liquidity pool functions and access management.	
<b>COMPUTER VISION RESEARCH INTERN</b> — <b>SONY.INC</b>	Jul. 2021 - Aug. 2021
· Conducted in-depth analysis of current <i>Person Re-identification</i> methods, identifying areas for improvement for model of 95.5% accuracy while maintaining low model complexity.	
· Strategically anticipated a <i>1%</i> increase of model accuracy by effectively handling hindered targets, strengthening model's robustness for real-life scenarios.	

## PROJECTS

<b>Travel Organizer</b> — <i>Plan, organize and visualize your customized travel plans</i>	Jun. 2023 - Now
· A mobile application & Chrome Plugin that crawls travel blogs to organize favorite travel locations on a map using <i>Google Map API</i> and <i>Beautiful Soup</i> for a customized travel plan.	
<b>SpeechEase</b> — <i>Real-time presentation-aid for tracking speech content and speed</i>	Mar. 2023 - Jun. 2023
· A full stack solution that recognize and analyze user's speech content and speed in real-time.	
· Built Mobile and Web Frontend with <i>Android Studio</i> and <i>React.js</i> , Backend using <i>Flask</i> , deployed on <i>Linux Azure Virtual Machine</i> .	
· Implemented process management of edge device with <i>C++ asynchronous programming</i> .	
<b>DAOFetcher</b> — <i>For better accessibility of DAO Discord Channels</i>	Mar. 2023
· Developed <i>within 8 days</i> in teams, won <i>1st</i> place at the EthGlobal and ranked <i>Top 10</i> at ScalingEth.	
· Used <i>OpenAI gpt-3.5-turbo</i> to summarize discussions of discord channels that users have subscribed.	
· Developed a web app with <i>Next.js</i> and <i>Chart.js</i> to visualize financial flow, using <i>AWS</i> as data storage.	
· Deployed organization subscription and user management mechanism with <i>Solidity Smart contracts</i> .	

## SKILLS

- **Languages:** Javascript, Typescript, Python, Java, C++, Solidity, MATLAB, HTML, CSS
- **Tools:** React.js, Next.js | Android Studio | Flask | Git  
Cloud Server Management, Linux | Restful API | Azure, GCP, AWS | Numpy, Pandas
- **Linguistics:** Korean (Native) | Chinese (Native) | English (Working Proficiency)

## AWARDS

*1st* on Mantle @EthGlobal | *Top 10* on Optimism @Scaling Ethereum | *3rd* Prize @Amazon HackSEA