

# Abubakr Khabebulolev

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Hi. I am Full stack Web Developer with 3+ years experience, skilled in React, Node.js, Python, and Typescript.

Frontend - Experienced and proficient React and TypeScript developer adept at building robust and scalable web applications.

Backend - Highly proficient developer skilled in both Node.js and Django, with a strong track record of delivering scalable and secure web applications.

Database - Experienced and proficient developer with 3 years of MySQL development expertise, delivering robust and efficient database solutions.

- Back-end development stack:

- Programming language: Typescript, Javascript
- Framework: Expressjs
- ORM: Sequelize, Sequelize-typescript,
- Middlewares: Express-validator,
- Deployment: Company server
- Server: Nginx, Apache

- Front-end development stack:

- Programming language: Typescript, Javascript
- Framework: React
- Deployment: AWS Amplify
- UI libraries: Material UI, Ant design, Mantine ui, Tailwind css
- State management: Mobx, react-mobx, Mobx-state-tree, Recoil
- Charts: Apexcharts, Ant charts, Google charts, Chart.js
- Maps: Naver maps, Mapbox, Leaflet, Google maps, VWorld map

- Database

- Mysql

- Project Management:

- Design: Figma
  - Issue tracker: Jira software
  - Code deployment: Bitbucket
  - Documentation: Atlassian Confluence
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## Work Experience

### (주)제로웹

Jul 2020 – Present

Research & Development / Fullstack web developer, Development team / Full-stack web developer

#### ● Subway Navigation (지하철 내비게이션) Feb 2022 – May 2023

Role:

Fullstack Web developer (NodeJS, Typescript, React, MySQL)

Project goal :

- Database modeling and development
- Developing apis for both admin and mobile app
- Developing Admin dashboard
- Developing 3d indoor navigation algorithms for multiple types of users such as normal, elderly, pregnant and disabled
- Developing shortest route algorithm station to station on multi line subway lines
- Developing multi language support for mobile app

Skills and deliverables(Technologies):

Jenkins, Bitbucket, Sequelize, ExpressJS, Entity Relationship Diagram, AWS Amplify, Ubuntu, MySQL, ReactNative, React, TypeScript, NodeJS

Solutions:

- Conducted comprehensive database modeling and development, creating an Entity Relational Diagram featuring 44 tables  
ercloud.com and used them on backend with Sequelize
- Developed APIs for both the data management dashboard and the mobile application, ensuring smooth communication and data synchronization using ExpressJs framework
- Designed and implemented an Administrator dashboard, facilitating data management and offering 3D pathfinding visualizations in various environments using React, MaterialUi, Naver maps and ThreeJs.
- Engineered pathfinding algorithms using the A\* (A star algorithm) for subway indoor navigation. The algorithm caters to different user types (Normal, Elderly, Disabled, Blind), providing the shortest path for normal users and specialized paths for elderly and disabled users utilizing elevators.
- Implemented shortest pathfinding solutions between subway stations, enhancing overall navigation efficiency.
- Integrated a multi-language support function using i18n package, ensuring accessibility and usability for diverse user demographics

#### ● Metasafe Smartcity platform(스마트시티 통합플랫폼, TTA Certified)

Feb 2022 – Feb 2023

Role:

- Backend developer(NodeJs, MySql)

Project goal:

- Database modeling and development
- Developing apis for admin
- Development of RTSP and Onvif cctv services

Skills and deliverables:

- NodeJs, MySQL
- RTSP streaming, Ffmpeg, Onvif
- Ubuntu, Pm2

Solutions:

- Conducted comprehensive database modeling and development, creating an Entity Relational Diagram featuring 42 tables  
ercloud.com and used them on backend with Sequelize
- Developed APIs for the data management dashboard, ensuring smooth communication and data synchronization using ExpressJs framework
- Developed rtsp streaming service with ffmpeg protocol and additionally used Onvif protocol to control (panning, zooming, screenshots etc) CCTV cameras

● **HelperIt(심부름이 필요할때, 헬퍼잇)** May 2022 - Dec 2022

Role:

- Backend developer (NodeJs, MySQL)

Project goal:

- Development of backend service for HelperIt startup.
- Database modeling and development
- Developing API for web client
- Developing SNS (KakaoTalk) integration

Skills and deliverables:

- NodeJs, MySQL
- Ubuntu, Nginx

Solutions:

- Conducted comprehensive database modeling and development and used them on backend with Sequelize.
- Developed APIs for data management dashboard ensuring smooth communication and data synchronization using ExpressJs framework
- Developed SNS (KakaoTalk) publishing services

● **Nipa people counting** Jul 2020 - Dec 2021

Role:

- Algorithm developer (Python3)
- Backend API developer (Django, DjangoRestFramework)
- Frontend developer (HTML5, CSS3, JavaScript)

Project goal:

- Development of people counting algorithm based on Wifi APs and door IR sensors
- Development of APIs for people counting for buildings in various regions and collaboration with KT dashboard
- Development of dashboard for sensor data for internal testing

Skills and deliverables:

- Python, Django, ChartJs
- AWS EC2, Ubuntu, Nginx, MySQL

Solutions:

- Developed algorithm to filter random mac address from WiFi APs and filtering Mobile devices from other devices. Using filtered data get people count on current time
- Developed rest api for people count in various places using DjangoRestFramework to feed KT people counting platform
- Developed Internal dashboards to test people count algorithm data for internal big data team

- **인증서 TTA Certified** Mar 2023 -  
스마트시티통합플랫폼
- **1등급( 소프트웨어품질인증의 최고등급)** Oct 2023 -  
소프트웨어 품질인증서  
CONVERGENCE OF IT DEVICES INSTITUTE BUSAN 부산 IT 융합 부품 연구소

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Education	<b>Dongseo University</b>	Sep 2016 - Present
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Skills	JavaScript, Git, MySQL, AWS, GitHub, TypeScript, NodeJS, React, React Native, ExpressJS, Django, Python, Ubuntu, EC2, Google Cloud Platform, Google Maps, Nginx, BitBucket, JIRA	
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Additional Information	<b>TOPIC</b>	Nov 2023
	SCORE: 2	
	<b>Testival (depth interview) in data structure and algorithm</b>	Oct 2018
	Dongseo University	

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Languages	<b>English</b>
	Native
	● <b>IELTS</b> January 20, 2016
	5.5

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## Related Links

<https://erdiagramly.akrv.dev>

ERDiagramly , Your One-Stop Solution for ERD Design! (Personal project)

<https://github.com/akrv7591>

<https://www.linkedin.com/in/abubakr-khabebulolev-35182b232/>

<https://akrv.dev>

Portfolio website