

PUNGHEE CHO

FULL-STACK SOFTWARE DEVELOPER

Denton, TX | Open to Relocation / Remote | +1 214-620-3122 | ahamium157@gmail.com | portfolio.pungheecho.com | U.S. Work Authorized - No Sponsorship Required

PROFESSIONAL SUMMARY

Software developer with nearly 5 years of professional experience building enterprise web, API, integration, data-intensive, and cloud-deployed applications. Strong hands-on background in React/TypeScript, C#/.NET, Java/Spring, REST APIs, SQL, Azure, AWS, and production troubleshooting. Proven record of improving large-data performance, modernizing legacy systems, integrating B2B platforms, and delivering full-stack solutions across public health, enterprise integration, fintech, blockchain, and recommendation systems.

TECHNICAL SKILLS

Full Stack & Backend: C#, .NET Core, Java, Spring Framework, Node.js, NestJS, REST APIs
Frontend: React, TypeScript, JavaScript, Next.js, AngularJS, HTML5
Data & Integration: Microsoft SQL Server, MySQL, MongoDB, Prisma, Spark, EDI/AS2, X12, EDIFACT
Cloud & DevOps: Azure, AWS, Docker, GitHub Actions, CI/CD, Git, Linux
Blockchain: Solidity, Hardhat, Ethereum/EVM, Wagmi, Viem, WalletConnect, MetaMask
Languages: Korean (native), English (professional working proficiency)

PROFESSIONAL EXPERIENCE

IHRC Inc | Software Developer | Remote Apr 2023 - Jun 2025

- Modernized the CDC PulseNet scientific data-analysis platform using React/TypeScript, C#/.NET, Azure, and MongoDB; delivered production UI features, backend APIs, search workflows, and data visualizations.
- Reduced dendrogram load time by 95%, from 3 minutes to 10 seconds for 2,000+ records, by profiling bottlenecks and optimizing recursive algorithms and visualization logic.
- Built and enhanced reusable React components and interactive scientific workflows while coordinating frontend behavior with backend services and large-data processing requirements.
- Improved release reliability through Jest unit tests, backend API testing, production troubleshooting, targeted bug fixes, and local modifications to third-party visualization-library behavior.

ATNS GROUP | Software Developer | Atlanta, GA Jul 2022 - Feb 2023

- Developed and deployed a Java-based microservice for processing Message Disposition Notifications (MDNs) in an enterprise AS2/EDI server application.
- Built inbound and outbound X12 and EDIFACT data transformations and supported B2B connectivity for Tesla, Volvo, Volkswagen, and Hyundai.
- Troubleshot certificates, encryption keys, message flows, databases, and Docker deployments using Java, MySQL, H2, PowerShell, and Linux.

Maevn Corporation | Software Engineer Intern | Dallas, TX Jan 2021 - May 2021

- Developed REST APIs in C#/.NET Core and Node.js to integrate ERP and B2B systems backed by Microsoft SQL Server.
- Re-architected integration workflows around reusable service interfaces, improving maintainability and separation between internal and partner systems.
- Designed AWS VPC, subnet, routing, load-balancer, S3, and Lambda architecture for an on-premises migration with failover, auto-healing, and auto-scaling support.

CONCOKOREA | Software Developer | Seoul, South Korea Apr 2018 - Jun 2019

- Developed and maintained Java/Spring Framework/MySQL applications for a cryptocurrency exchange renewal and related backend services.
- Replaced legacy web pages with an AngularJS single-page application integrated with Java APIs and relational database workflows.
- Built cryptocurrency issuance, mining, distribution, and hard-fork asset-tracking features while supporting Linux deployments and full-stack troubleshooting.

PROJECTS

Crypto Pay | Cloud-Deployed Full-Stack Payment Gateway MVP Jan 2026 - Jul 2026

- Built and deployed a full-stack payment platform using Next.js, NestJS, Prisma, Docker, Azure App Service, and GitHub Actions, including REST APIs, invoice workflows, wallet login, and backend transaction verification.
- Implemented nonce-based wallet-signature authentication, JWT sessions, protected administrative actions, and WalletConnect/MetaMask support.
- Containerized frontend and backend services, published Docker images, and added CI/CD smoke checks for repeatable cloud releases.

AI / Big Data Shopping Recommender | Full-Stack Web & Mobile Application Jul 2021 - Dec 2021

- Built a Spark-based collaborative-filtering recommendation system, computing feature weights and improving cosine-similarity scoring for personalized product recommendations.
- Integrated React, React Native, Node.js/Express, and MongoDB across web, mobile, API, data-processing, and recommendation workflows.

EDUCATION

University of Texas at Dallas | M.S. in Computer Science | Richardson, TX
Dankook University | B.S. in Electrical Engineering | Seoul, South Korea

Aug 2019 - May 2022
Mar 2011 - Feb 2018