

Software Engineer with 3 years of professional experience in Node.js (React.JS, Next.JS, Nest.JS), TypeScript, Python and SQL, as well as academic background in mathematics, theoretical computer science, machine learning and statistics.

## Work Experience

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<b>Software Engineer</b>	<b>Andorean LLC</b>	<b>May 2022–June 2024</b>
Ulaanbaatar, Mongolia		

- Built a general-purpose, scalable rule engine that executes user-defined JavaScript functions on dynamic JSON states, which greatly simplifies operations by decoupling complex business logic from other services
- Prototyped 3D machine-guidance applications using Unreal Engine, for excavator-mounted tablets, improving operator productivity and reducing human-error during mining operations
- Designed and implemented REST API for generating and serving 2D map-tileable satellite images
- **Technology:** TypeScript, Python, gRPC, Next.JS, Nest.JS, Docker, Kafka, Unreal Engine, PostgreSQL

<b>Software Engineer</b>	<b>DupliTrade MN LLC</b>	<b>May 2021–Apr 2022</b>
Ulaanbaatar, Mongolia		

- Co-created FXFunds, an investment platform catering to retail forex and commodity traders
- Designed and implemented backend services in Node.js to monitor user trading activity in real-time, allowing automated risk management policies
- Built front-end website for client account management and registration
- **Technology:** Node.JS, Express.JS, PostgreSQL, DigitalOcean

<b>Data Engineer</b>	<b>TomYo EdTech</b>	<b>Oct 2020–Apr 2021</b>
Ulaanbaatar, Mongolia		

- Improved user retention by building in-house educational video recommendation system using Python, machine learning toolkits such as Scikit-Learn, and AWS
- Conducted user segmentation analysis to identify key user clusters based on video interactions
- **Technology:** Python, Scikit-Learn, SQL, AWS

<b>Data Engineer Intern</b>	<b>TomYo EdTech</b>	<b>Summer 2020</b>
Ulaanbaatar, Mongolia		

- Established backend system for integrating mobile app with CRM platforms such as Customer.io
- Enhanced analytics capabilities by integrating A/B testing enabled push notifications into mobile app
- **Technology:** Node.JS, React Native, AWS

## Education

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| <ul style="list-style-type: none"><li>• <b>B.S.E Computer Science</b>, Princeton University, USA.</li><li>- Graduated with High Honours (3.8/4.0 GPA)</li><li>- Minor in Statistics and Machine Learning, with independent project in Computer Vision</li><li>- Teaching Assistant for Algorithms &amp; Data Structures, and Discrete Mathematics courses</li></ul> | <b>2017–2021</b> |
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## Projects

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- **Portfolio (HTML/CSS/JS)** - Simple project portfolio page ([link](#))
  - **moBTC (GoLang)** - Look at Bitcoin transactions, as they happen (discontinued - [link to repo](#))
  - **AirUB (Flutter)** - Real-time air quality information from Ulaanbaatar, Mongolia (discontinued - [link to repo](#))