

# Dias Mashikov

123-456-7890 | [diasmashikovnasa@gmail.com](mailto:diasmashikovnasa@gmail.com) | <https://www.linkedin.com/in/dias-mashikov/> | <https://github.com/diasmashikov>

## TECHNICAL SKILLS

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**Languages:** Typescript, Javascript, Java, Go, Python, SQL (Postgres), HTML, CSS

**Frontend:** NextJS, React, Zustand, Jest

**Backend:** Express.js, Fiber, FastAPI, Microservices

**Developer Tools:** Git, GitHub Actions, AWS, Vercel, Google Cloud Platform, Jenkins, Linux, Docker, Kubernetes

## EXPERIENCE

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### Full-Stack Engineering Intern

June 2024 – Present

*UPMC*

*Pittsburgh, PA*

- Led the design and development of the Medical Histology Learning Platform, utilizing NextJS and FastAPI to minimize learning time by 50% through streamlined interfaces and AI model integrations
- Developed the histology classification model, reaching 95.4% accuracy in predicting the organism type using ResNet 50, enhancing diagnostic accuracy
- Fine-tuned the GPT-4o model to generate detailed explanations of histology imagery scenes, significantly enhancing user comprehension and engagement with histological content
- Gave a series of lectures to over 24 high school students on developing AI applications using Liner.ai and PyTorch, promoting early interest in AI technologies

### Full-Stack Engineering Intern

Sep. 2023 – Dec. 2023

*University of Pittsburgh*

*Athens, GA*

- Led the design and development of the experimental Knee Analysis platform using ReactJS and Django, incorporating real-time data processing and intuitive user interfaces to reduce diagnosis time by 39%
- Integrated the Research Lab's AI models on Oracle Cloud, enabling real-time testing and validation of AI predictions on live data through Django endpoints, enhancing the accuracy and reliability of diagnostic tools

### Software Engineering Intern

June 2022 – Sep 2022

*PayPal*

*Seattle, WA*

- Enhanced user engagement and visibility of financial products by 3% through the integration of all financial services into a cohesive Finance Screen on Android for an app used by 12,000,000 people.
- Led the upgrade of 30% of PayPal Business SDKs Gradle files to API 31, overcoming compatibility issues and employing automated testing frameworks to ensure stability for an expanded user base

### Full-Stack Engineer

July 2021 – November 2021

*Rosemary*

*Remote*

- Developed a full-stack e-commerce mobile application for Android and iOS, enhancing scalability and user experience using Flutter, Express.js Heroku, AWS, and MongoDB to support increasing user traffic
- Engineered a NodeJS backend server, implementing parallel network call algorithms such as concurrent API requests and load balancing, resulting in a 50% improvement in startup time and significant performance boost.

## PROJECTS

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### Diascodegym | *Typescript, React, NextJS, MongoDB, Vercel, Amplitude, GitHub Actions*

April 2024 – Present

- Led the design and development of a Leetcode-like coding platform for beginner-level programmers, using NextJS to create an intuitive and responsive interface for over 143 active users from Kazakhstan and USA, powered by ChatGPT
- Implemented an analytics system to track key project metrics for the product team, utilizing Amplitude, Plausible, and Seaborn to analyze data from MongoDB, enabling data-driven decisions to grow the startup
- Fine-tuned the ChatGPT model to tutor and assist users in solving coding questions and learning programming, processing 70 questions daily, significantly improving the learning experience and reducing query response time

## EDUCATION

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### University of Georgia

Athens, GA

*Bachelor of Arts in Computer Science*

*August 2023 – June 2025*

### Seattle Central College

Seattle, WA

*Associate's in Science*

*April 2019 – May 2022*