

Dias Mashikov

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SUMMARY

Senior Year Computer Science Student at the University of Georgia with over 2 years of diverse experience in frontend and backend development, including internships, research, and professional roles. Seeking a Summer 2025 internship in the US to further develop my skills and contribute to innovative projects. Open to relocate.

TECHNICAL SKILLS

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

Software Development Methodologies: Agile, Waterfall

EXPERIENCE

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
- Tech Stack: **NextJS, ReactJS, Typescript, Tailwind CSS, Vercel, DigitalOcean, Python, FastAPI, MongoDB, Docker, Tensorflow, GitHub Actions, Cloudflare R2**

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
- Tech Stack: **ReactJS, Typescript, Oracle Cloud, Google Cloud Platform, Python, Django, Docker**

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
- Tech Stack: **Android, Java, Kotlin, Gradle, Javascript, Jenkins CI/CD, SQL**

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.
- Tech Stack: **Flutter, Javascript, Express.js, MongoDB, Heroku, AWS**

PROJECTS

Diascodegym

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 43 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 40 questions daily, significantly improving the learning experience and reducing query response time
- Tech Stack: **Typescript, React, NextJS, MongoDB, Vercel, Amplitude, GitHub Actions**

EDUCATION

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