Maxim Slobodchikov

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EDUCATION

Boston University Expected May 2025
BA/MS, Computer Science (Dean's List) *Boston, MA*
- Relevant Coursework: Data Structures and Algorithms, Systems Programming, Databases, Web Design, AI, ML

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, C, Java, Go, SQL, JavaScript, TypeScript, HTML/CSS, R.
- **Frameworks/Tools:** React, Redux, Node.js, Flask, MongoDB, Playwright, Jest, TensorFlow, Docker, Vercel.

WORK EXPERIENCE

Boston University Aug 2023 – Current
Teaching Assistant (DS291, Diversity, Equity, Inclusion in Tech) *Boston, MA*
- Taught a 23-student course, illuminating web development best-practices, WCAG principles, techniques for making multimedia content accessible, semantic HTML, ARIA roles, as well as methodologies for user testing.
- Led weekly office hours leading 4 screen reader and algorithmic fairness projects accepted to BU DemoDay.

The Washington Post May 2023 – Aug 2023
Front End Engineering Intern *Washington, DC*
- Deployed reusable components using TypeScript, React reaching 62M+ monthly users with 86% engagement.
- Automated 4 end-to-end tests using Jest, cutting testing time of publishing workflow for journalists by 32%.
- Led A/B test automation using Akamai, achieving a 10% increase in sidebar recommendation click through rate.
- Actively participated in scrum ceremonies such as sprint planning, daily standup, and backlog refinement.
- Won company hackathon, embedding an article connectivity visualization on-site using scalable GraphQL API.

Hack4Impact Sep 2022 – May 2023
Full Stack Development Lead *Boston, MA*
- Led 20-week web application sprint for Kaleidoscope Village, a nonprofit offering interactive LGBT workshops.
- Implemented an NLP entity extraction algorithm with CohereAI to create automated, scenario-based feedback.
- Engineered a dynamic user progress tracking system using FirebaseDB, customizing content delivery based on individual learning journey and access tokens, utilizing React for seamless UI resulting in a 60% completion rate.

IPG Photonics May 2022 – Aug 2022
Machine Learning Intern *Marlborough, MA*
- Designed a quantitative ML algorithm using sensor data, TensorFlow, and OpenCV to calibrate lens placement with a 6-axis robot arm, automating a core laser assembly process and cutting production time by 50%.
- Spearheaded a SQLite pipeline to scale data from light sensors onto GPU servers to improve training efficiency.

PROJECTS

GreenTrade | *Python, Django, GraphQL, ReactJ, spaCy* Sep 2023 – Oct 2023
- Won best start-up idea at HackMIT 2023, creating a Discord bot to help traders fact-check companies sustainability and ethical performance by comparing alleged environmental scores to web scraped news data.
- Calculated real ESG score by processing fetched HTML to sentiment using BERT and spaCy transformers.
- Implemented GraphQL endpoints in Django to serve data to React frontend in less than 5 seconds.

DoodleBoard | *JavaScript, ReactJS, Flask, OpenCV, AWS* Apr 2023 – Aug 2023
- Developed an interactive drawing web application used by 80+ students to learn organic chemistry structures with Flask serving Canvas API, React refs and useRef hooks to add RGB colors and brush size features.
- Received $1500 of funding from BU Innovation Lab to add automated ML feedback and timer gamification.