

# ABDUL EL-SAIED

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**Full Stack Software Engineer** with experience in developing scalable web applications using Python, JavaScript, React and Flask. Proficient in designing intuitive user interfaces, implementing real-time features with WebSockets, and optimizing database performance. Pursuing a Master's in Computer Science with a specialization in Interactive Intelligence and Machine Learning.

## EDUCATION

**Master of Science, Computer Science (Interactive Intelligence, ML)** | Georgia Tech | *Expected 2026*

**Bachelor of Science, Electrical Engineering and Computer Science. Data Science Minor** | University of California, Berkeley | Dec 2022

## SKILLS

**Programming Languages:** Python, Java, JavaScript/TypeScript, C++, Go, HTML, CSS, SQL

**Frameworks & Libraries:** React, Flask, Node.js, Next.js, Tailwind, Chart.js, Selenium, PyTest, Chrome Extensions API, TensorFlow, Shopify Liquid, SocketIO, NumPy, LLM

**Databases:** PostgreSQL, MongoDB, Cloud Firestore, AWS

**Development Practices:** Object-Oriented Programming, MVC, RESTful APIs, WebSockets, Data Normalization, Unit/Integration Testing, Version Control, Agile Development, Responsive UX/UI Design, Accessibility

## PROFESSIONAL EXPERIENCE

**Founding Software Engineer** | [Poshlor](#) | Mar 2023 - Present

- Founded and created Poshlor, a JavaScript-based Chrome extension utilizing the Chrome Extensions API, enabling users to sort Poshmark closets by color themes 10x faster, solving the absence of native color sorting.
- Utilized Python for backend development, Flask for server implementation, hosted on GCP and MongoDB for database management; built an in-house token authentication service, reducing unauthorized access by 25%.
- Conducted usability testing and 100+ user interviews; gathered insights on user pain points to inform fast-paced iterations.

**Full Stack Software Developer** | Develop for Good, Stanford University | Apr 2021 - Jan 2022

- Increased monthly donation volume by 29% by developing a responsive round-up modal for a merchant's storefront, allowing customers to round up purchases for charity, using React and Shopify Liquid.
- Collaborated with a multi-disciplinary team of product managers, designers, and user researchers to analyze information and implement an admin dashboard with real-time data visualizations in Chart.js with Flask/PostgreSQL.

**Software Engineer Intern** | Rendezview.io | Jan 2021 - June 2021

- Improved user retention by 38% for a team collaboration app through data-driven insights.
- Leveraged Event Tracking and GCP (Cloud Firebase) to log user activities, such as creating meetings and video calls.
- Analyzed the collected logs with Python and NumPy to uncover pain points and recommended re-engagement strategies to leadership, such as pop-ups and notifications.

**Computer Science Academic Intern** | UC Berkeley, CS61A | Summer 2019 & Fall 2019

- Led weekly labs and office hours for 30+ students, simplifying complex technical concepts through lectures, 1:1 mentorship.

## PROJECTS

**Full Stack Software Engineer** | [Geography Benchmark AI](#) | Jan 2024 - Present

- Designed an educational web app aimed at helping users learn about countries through interactive gameplay.
- Built responsive interface using React, TypeScript, Tailwind, and Vite; added dynamic data visualizations using D3.
- Developed backend with Node.js, Express, and PostgreSQL, optimizing db queries for faster performance and scalability.
- Integrated AI features with OpenAI to generate country hints in a game mode, enhancing interactivity and educational value.

**Full Stack Software Engineer** | [ChessKey](#) | Dec 2022 - Mar 2023

- Built a chess application using Python, Flask, and PostgreSQL, reducing game setup time 3x compared to leading platforms; created real-time chat with WebSockets, and increased player base by 250% through continuous feature updates.
- Incorporated a self-built chess AI using Python, implementing AI concepts such as minimax searching and alpha-beta pruning to create a challenging and engaging gameplay experience.
- Optimized database design, reducing SQL query costs by 40% and boosting app performance.
- Achieved 95% test coverage using PyTest and Selenium for unit and integration tests.

**Front End Developer** | [Personal Website](#) | May 2024

- Designed & coded a responsive portfolio site using React, Next.js, and HTML/CSS/Tailwind to learn front-end technologies.
- Reduced component load times by 80% using lazy loading and code splitting.

**Front-End Engineer Mentor** | Mozilla Builders Incubator | Dec 2020 - March 2021

- Led technical workshops and hackathons for funded founders of 10+ startups, deepening their technical knowledge.

**Technical Writer** | [Medium](#) | July 2021 - Present

- I write educational articles on topics including building personal websites, designing and implementing web applications, and developing chess AIs. I share technical insights to help others learn and grow - check out my articles!