Yaakov Holdowsky

Full-Stack Software Engineer

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SUMMARY

Full-Stack Software Engineer building secure production systems in healthtech. At EyeContactDX, built and own clinical reporting and physician portal applications that deliver eye-tracking autism screening results to clinicians. Experienced in Python, TypeScript, React, Flask, AWS, and end-to-end delivery, with a structured AI-assisted development workflow.

TECHNOLOGIES

Languages and Frameworks: Python, JavaScript, TypeScript, Flask, React, SQL
Backend and Data Systems: Data Pipelines, Multi-Tenant Architecture, Authentication
Cloud and Infrastructure: AWS, Docker, S3, Lambda, DynamoDB, EC2, CloudFront, API Gateway, CI/CD, GitHub Actions
Tools and Libraries: Pandas, Cursor, Claude, Codex

EXPERIENCE

EyeContactDX | Software Engineer *Israel | April 2025 - Present*

- Engineered and launched two core production applications that brought the company's eye-tracking autism risk model into clinical use, supporting 23 pediatricians and enabling the company to onboard its first paying customers.
- Built an internal reporting application using Python, JavaScript, and React that generates individualized reports from eye-tracking data, supports clinical review and editing, and publishes reports to S3.
- Architected an AWS physician portal for secure report access using Cognito, API Gateway, DynamoDB, and S3, with role-based access control and audit logging.
- Built a structured AI-assisted development workflow with reusable project rules and automation hooks for implementation planning, testing, production-code reuse, and PR delivery.
- Partner closely with executive leadership and clinical stakeholders to translate research, operational, security, and compliance requirements into maintainable production systems.
- Developed and evaluated alternative machine-learning models for autism risk prediction from eye-tracking data, benchmarking performance against the company's flagship model.

American European Insurance Group (AEIG) | Software Engineer *New York, New York | October 2022 - April 2025*

- Built full-stack insurance quoting workflows using React, TypeScript, Python, and AWS, from application forms through quote retrieval and display.
- Implemented complex insurance business logic in Python to process application data and construct requests to Majesco APIs.
- Integrated Majesco APIs to retrieve insurance quotes and display results to users within the application.

PROJECTS

TandBeeLiquidGold | Live Site | GitHub

- Designed, built, and operated a full-stack e-commerce platform for a boutique honey business, generating tens of thousands of dollars in seasonal revenue.
- Integrated Stripe payments, real-time order tracking, WebSockets for live updates, and AWS S3.
- Managed production deployments during high-volume sales periods.

EDUCATION

App Academy | Full Stack Web Development *San Francisco, California | October 2021 - May 2022*
Rutgers Business School | Bachelor of Science in Finance *New Brunswick, New Jersey | Class of 2017*