

# Shadman Rakib

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## EDUCATION

**City University of New York, Hunter College**

*Bachelor of Arts in Computer Science*

*Relevant Coursework:* Data Structures & Algorithms, Object Oriented Programming, Calculus 1-3, Linear Algebra

Expected Graduation: May 2025

GPA: 3.9

## EXPERIENCE

**Software Engineer**

*Persona* ([www.persona.nyc](http://www.persona.nyc))

**New York, New York**

Jan 2023 – Sept 2023

- Implemented financial treasuries into React app, allowing 5+ communities to manage funds exceeding \$100,000.
- Created routing API in Typescript to simplify route-based states, removing 450+ lines of code, bugs & overhead.
- Built a gesture-enabled React Native bottom sheet API used in 90+ components to enhance user experience.

**Software Engineer & Product Designer**

*Headstarter* ([www.theheadstarter.com](http://www.theheadstarter.com))

**New York, New York**

Sept 2022 – Mar 2023

- Created a cost-effective, push notification system with AWS and Next.js, boosting engagement by 36%.
- Designed and implemented an intuitive lesson UI, eliminating reports of confusion, increasing revenue by \$80K.
- Implemented tree-shakeable imports, slashing bundle size by 50% and initial page load times by 5 seconds.

**Founding Software Engineer**

*Provecho* ([www.provecho.bio](http://www.provecho.bio))

**Remote**

Jul 2021 – Jul 2022

- Built Provecho from a \$0 to \$10 million venture, starting as an intern, but soon being promoted to lead engineer.
- Created Provecho's modern recipe interface, upload workflow, and creator dashboard, serving 200,000+ users and winning trust from the top 0.1% of food influencers (700k – 10M followers).
- Collaborated with engineering teams at Wix, Beacons, & Koji to integrate Provecho into their platforms.
- Conducted interviews with renowned influencers (Big Eats, Patrick Zeinali, Freddsters) to enhance products.
- Implemented technical SEO, catapulting Provecho from the 5th page to the first page on Google, boosting brand visibility, and increasing organic traffic by over 300%.
- Aligned product strategy with investors, including LinkedIn's former CEO Jeff Weiner and Brian Rumao.

## PROJECTS

check [shadmanrakib.com/work](http://shadmanrakib.com/work) for more projects

**Raycaster (2D to 3D graphics)** - [Github](#) | [Portfolio Post](#)

- Synthesized a 3D world from a 2D top down map view using raycasting and extensive trigonometry. Written in Golang.

**Khaiso Recipe App** - [Portfolio Post](#) | [iOS Beta](#) | [WIP Svelte Headless UI Library](#)

- Building a React Native mobile app and a SvelteKit web app to make sharing recipes seamless.
- Created a scraper surpassing Samsung Food in extracting unstructured recipe data from sites lacking metadata.
- Implemented a hybrid search that uses keyword search and ML-powered natural language search via vector embeddings.
- Built an AWS backend, managing key features like authentication, authorization, email notifications, & search.
- Developing a Svelte headless UI library adhering to W3C's ARIA Authoring Practices Guide for web accessibility. Implements best practices, including tab and screen reader trapping, roving index, & type-ahead.

**Quizton (under Google NYC mentorship)** - [Github](#) | [Portfolio Post](#)

- Created a crowdsourced test bank with React, Next.js, & Firebase. Built a Firestore search engine after reading a Stanford information retrieval textbook. Created a cheaper search & recommendation system with Elasticsearch.

**Phixel Photo Editor** - [Github](#) | [Portfolio Post](#)

- A photo editor with manipulation tools that utilizes alpha compositing to render layers. Written in Processing.

**Connect 4 AI** - [Github](#) | [Portfolio Post](#)

- Connect 4 AI that uses a min-max algorithm with alpha beta pruning to estimate best moves. Written in Netlogo.

## SKILLS

**Languages:** Typescript (4yrs), Javascript (5yrs), Python (3yrs), C++ (2yrs), Java (1yr), Golang (1yr), SQL (1yr)

**Technologies:** Git, Node.js, Amazon Web Services, Next.js, React, React Native, Svelte, SvelteKit, SASS, Firebase, PostgreSQL, MongoDB, Docker, Express.js, Puppeteer, Flask, Google Analytics