

William Newman

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EDUCATION

- **Macaulay Honors College at CUNY City College**

B.S. in Computer Science; GPA: 3.5

New York, NY

Graduated December 2019

EXPERIENCE

- **Cambly**

Software Engineer

San Francisco, CA

Feb 2020 – November 2024

- **Tutor Payments:** Led a team of 5 engineers to develop a payment ledger system that manages \$50+ million annually, enabling new features like a premium IELTS product and outage reimbursements for tutors. Seamlessly transitioned from old system to new system with no major issues.
- **Anytime Minutes:** Led a team to formalize a credit system for student anytime minutes, enabling expiration dates for 10+ million minutes and paving the way for features like upsells and a minutes-focused IELTS plan.
- **Navbar:** Led the overhaul of the web app's navbar for a rebranding initiative, ensuring compatibility with Next.js, which unblocked core page development on Next.js. Delivered on a tight deadline.
- **Cross-Platform Code:** Architected a lightweight solution to cross-platform code sharing using lint rules to ensure code compatibility between our Next.js and Express web applications despite different dependencies.
- **CDN for Next.js Static Assets:** Implemented a CDN for Next.js static assets, reducing load times by 20-50% as well as reducing server demand.
- **Frontend On-Call:** Participated in frontend on-call rotation, addressed issues like rendering errors, error boundaries, and paging alert sensitivity.
- **Tanstack Query Auto-Generation using OpenAPI:** Started a project to use our OpenAPI spec to auto-generate Tanstack Queries and Mutations, providing built-in caching, request-state management, and cache-invalidation.
- **Syntax Design System:** Attended weekly design system meetings. Fixed bugs, added features, and created new components for the design system.

- **Cambly**

Software Engineering Intern

San Francisco, CA

Summer 2019

- **Tutor Signup Flow:** Overhauled + augmented signup flow for tutors on our platform.

- **SmartEquip**

Software Engineering Intern

Norwalk, CT

June 2018 - August 2018

- **Client Config:** Built an internal tool that enabled my coworkers to more easily tailor the appearance and functionality of SmartEquip's main product to each client's needs. More specifically, I built a tool that allowed users to save, load, and track changes made to a client's settings with the help of a simple, intuitive interface.

- **CUNY City College**

Research Assistant

New York, NY

June 2017 - January 2018

- **Research Contributions:** Edited journal papers, conducted Git tutorials, and developed data parsing programs to streamline transportation matrix creation, QGIS line generation, and SQL data entry.

PROJECTS

- **Note AI:** Autocomplete for songwriting. Built with React, Next.js, Deno and MongoDB.
- **WoChat:** A Slack clone built with React, Nest.js, and MongoDB

SKILLS

- **Languages:** Typescript, Javascript, Python
- **Technologies:** React, Next.js, React Query, CSS, MongoDB, Flask, HTML, Heroku, AWS S3, AWS Route 53, AWS Cloudfront, Jira, Git, LLM Apis