Bill Odiwuor Kawaka

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EDUCATION

Rutgers University — **Expected May 2029**
B.S. Electrical & Computer Engineering — *New Brunswick, NJ*

Princeton University — **Jun 2025 – Aug 2026**
Transfer Scholars Initiative ’25, Freshman Scholars Institute ’26 — *Princeton, NJ*

Middlesex College — **Jul 2024 – May 2026**
A.S. in Computer Science, GPA: 4.0 — *Edison, NJ*

LEADERSHIP & EXPERIENCE

Chief Technology Officer – Memory Mission — **Jul 2026 – Present**
Nonprofit | Part-time — *New Brunswick, NJ*

- Founding technical lead and sole engineer of a 501(c)(3) memory-science research nonprofit's entire digital infrastructure. **~49,500 lines of TypeScript** on Next.js 16 / React 19, with a hand-rolled CMS since migrated onto Payload 3.88 + the Puck visual page builder so staff publish without touching code / Postgres, Cloudflare R2 media storage, Resend for transactional email and newsletters, Google OAuth with role-based access across **20 granular permissions**, an append-only audit log on every write, and GA4, deployed on Vercel.
- Integrated the Anthropic API (claude-opus-5) into the staff newsletter composer so editors rewrite drafts in place with tone presets, degrading gracefully without configured keys.

Course Fellow, POL/SOC 245: Visualizing Data – Princeton University — **Apr – Aug 2026**
Freshman Scholars Institute — *Princeton, NJ*

- Sole Course Fellow for a seven-week R course serving 22 incoming Princeton first-years, most of whom had never written code; all finished building & presenting original visualizations. 25+ hrs/week under Prof. Vikram Ramaswamy.
- Graded coding work, ran three office-hour blocks a week, and **taught a full precept solo** during final project proposals as well as authoring a weekly “Data Discourse” prompt on Ed Discussions for student discussion & debate.

President, Computer Science Club – Middlesex College — **Jan 2025 – May 2026**
Part time — *Edison, NJ*

- Led one of the three largest clubs on campus, sustaining ~30 recurring members per semester.
- Designed and taught two 9-week workshop series (HTML/CSS/JavaScript; Python/Pygame), taking students with no prior coding experience to a deployed personal site and a finished game; capped each with a showcase competition.

PROJECTS

BestTime – TypeScript, Web Components, npm (MIT)

- Open-sourced a timeline component as three npm packages (besttime, @besttime/react, @besttime/core) that compress empty history into marked breaks and zoom continuously. 17 kB gzipped, 82 CI tests.

ume – Node.js, discord.js, Electron, Cloudflare R2

- 24/7 Discord radio bot streaming a cloud-hosted library through presigned S3 URLs, with slash commands, persisted queue state, and ffmpeg/Opus encoding into live voice channels; shipped an Electron desktop panel for non-technical moderators

SKILLS

Languages: TypeScript, JavaScript, Python, Java, C#, C++, R (+Tidyverse), SQL
Web: Next.js, React, Node.js, Tailwind, Web Components, Prisma, PostgreSQL
AI: Anthropic API (Claude), Claude Code / agentic dev workflows, prompt design
Tools: Git & GitHub Actions, Docker, Vitest, Vercel, Cloudflare R2, Unity, Electron

HONORS & AWARDS

- TechConnect Workforce Travel Grant (**Nov 2025**)
- **Scholarships:** Southpole Foundation (**Aug 2025**) / Kodavatiganti Family (**Aug 2025**)
- Coca-Cola Leader of Promise Scholarship (**PTK, Aug 2025**)
- Phi Theta Kappa Honor Society (**PTK, Feb 2025**) & Tri-Alpha Honor Society (**Nov 2025**)
- Dr Fannie Lockhart Gordon Award (**Educational Opportunity Fund, Aug 2024**)