GABRIEL KOOMSON
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EDUCATION

TRINITY COLLEGE- Hartford, CT — Expected May **2027**
Bachelor of Science in Computer Science & Economics
Relevant Coursework: Data Structures & Algorithms, Operating Systems, Software Engineering, OOP(Java+Python), Discrete Maths, Calculus I&II, Statistics, *Computer Systems, Applied Linear Algebra*, *Cloud Native Development*
Honors & Awards: Arnold E. Raether Memorial Scholarship, Faculty Honors(Fall 2023)

SKILLS AND CERTIFICATIONS

- **Programming Languages**: **Java, Python, C, JavaScript, Kotlin, R, *TypeScript***
- **Frameworks/Technologies:** Next.JS, React, TailwindCSS, Numpy, Supabase, MongoDB, Figma, Linux, Git, JIRA
- **Certifications: Responsible Conduct of Research for Engineers - CITI, CodePath Technical Interview(2024), Social & Behavioral Research - CITI, VC Industry Research - Paragon One**

EXPERIENCES

Clasona — June 2025 - Present
Intern, Fullstack Software Engineering
- Build Support Center for multi-vendor e-commerce platform using **React**, **Next.js**, **TypeScript**, & **MongoDB**
- Design responsive dashboards for end users in support ticketing, integrating with **REST APIs** via **Axios**
- Integrate backend services with Stripe & Uber Direct APIs to support payments, workflows & participate in sprints
- Maintain 95%+ coverage using **Jest** & React Tester Library ensuring **WCAG 2.1** accessibility & mobile responsiveness

MobyPhish - Usable Public Key Infrastructure — June 2025 - Present
Research Assistant, Professor Ewa Syta Cybersecurity Lab
- Built a phishing detection browser extension with **React** leveraging **SSL certificate** parsing, & domain heuristics
- Contributed **python** & **TypeScript** code to **Tutanota** open-source email client to detect phishing emails via header parsing and suspicious link inspection
- Engineered test environments using **Bash** scripting, **Nginx**, **HTTP** virtual hosts, CAs & SSL certifications to simulate & evaluate tool
- Designing & implementing experiment websites with **React**, **Flask** and **Supabase** to conduct usability testing for phishing countermeasures; research paper in progress

Trinity College Computer Science Department, Hartford, CT — September 2024- Present
Teaching Assistant, Computing Essentials
- Assist professor in teaching **Python** programming fundamentals to 50+ undergraduate students
- Grade over 50+ labs & assignments weekly providing feedback to improve students' **programming** skills
- Support 15-20 students through 5 hour weekly office hours, bridging knowledge gaps through one-on-one interactions

Google Computer Science Research Mentorship Program — September 2023- December 2023
Data Science Researcher | Numpy, Pandas, PyTorch
- Collaborated with a Google researcher to investigate GenZ AI & ML technologies adoption
- Utilized **Numpy** & **Pandas** for data cleaning, preprocessing, and statistical analysis of large datasets in **Google Colab**
- Developed & trained machine learning models in **PyTorch** to predict adoption rates & identify key influencing factors

PROJECTS

Pokedex | Kotlin, Java**,** Git, Pokemon API — https://github.com/Codepath-AND101Group36Project/Pokedex
- Collaborated with 4 developers to build a mobile app application that generates instant information about Pokemons
- Implemented views, layouts, custom widgets, and gestures for smooth UI with **Java** & **Kotlin** in **Android Studio**
- Optimized **API** communication & reduced response time by 30% by implementing an asynchronous HTTP client, enabling non-blocking requests and faster data retrieval

Moozic | React, JavaScript, CSS, Face-api.js — https://moozic.netlify.app/
- Developed a fully functional, interactive web app that generates a Spotify playlist based on the user's mood
- Built & styled with **CSS** using the **React** framework, Spotify API & **face-api.js** for facial detection and mood analysis
- Deployed the web app on **Netlify** server and attracted 150+ test users with a ~90% satisfaction rate

LEADERSHIP & AFFILIATION

Trinity College Computer Science Club | Operations Lead | Hartford, CT — May 2024– Present
Basta - Google Software Engineering Programme | Mentee | New York, NY — October 2024– Present