Sophie Agbekpenou

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EDUCATION

Columbia University in the City of New York — Expected May 2026
Bachelor of Science in Computer Science, GPA: 3.5
- **Relevant Coursework**: Data Structures & Algorithms, Systems Programming, Databases, Artificial Intelligence, Applied Machine Learning, Fundamentals of Computer Systems, Natural Language Processing
- **Awards/Honors**: Seal of Biliteracy in French, Lockheed Martin STEM Scholar, D. E. Shaw & Co. Fellow

SKILLS

Languages: Java, C, C++, Python, TypeScript, HTML/CSS, SQL, Kotlin
Frameworks: React, Flask, Node.js, Next.js
Developer Tools: UNIX, Git, Vim, VS Code, PyCharm, NumPy, IntelliJ, Figma, MongoDB

PROFESSIONAL EXPERIENCE

Software Engineering (STEP) Intern — May 2024 – Aug 2024
Google — Mountain View, CA
- Develop new features for real-time health monitoring and integration with Google's health ecosystem, utilizing **Kotlin** and **Fitbit SDKs** to expand app functionality, resulting in a 10% increase in user engagement metrics
- Optimize data synchronization processes between wearable devices and mobile platforms using advanced algorithms in **Kotlin**, enhancing the efficiency of data transfers and reducing latency by 5%

Software Developer Intern — May 2024 – Jul 2024
Sponsors for Educational Opportunity (SEO) — Remote
- Implement and streamline scalable web applications integrating **Python (Flask)** & **MySQL** for backend operations and **JavaScript** & **HTML/CSS** for frontend, ensuring optimal functionality
- Direct Agile sprint planning sessions within SCRUM teams to conceive, design, and launch over 15 user-driven features, establishing a feedback loop that increased user satisfaction by 12% and retention by 15%

Full Stack Software Engineering Intern — Jan 2023 – Jun 2023
Seafair — New York, NY
- Collaborated with the UX team to design and implement user interface components using **React** and **TypeScript**, increasing user engagement by 10% and decreasing page load times by 2 seconds
- Revitalized **Django**-based APIs to enhance system responsiveness and capacity by 25%, significantly improving platform performance during peak usage
- Revamped an outdated legacy codebase with a cross-functional team, reducing bug reports

PROJECTS

GenOne | React, Node.js, Google Vision API, Google Translation API, 🔗
- Designed and developed an immigrant-focused secure document translation platform, enhancing user experience and accessibility by employing **React** for the frontend and **Node.js** for the backend
- Devised a document processing system with optical character recognition that improved translation accuracy by 12%, utilizing Google Vision API for text extraction and Google Translation API for real-time language conversion

Web Server | C 🔗
- Developed a web server in C, capable of serving static and dynamic content in compliance with HTTP 1.0 and HTTP 1.1 protocols
- Optimized server functionality to manage over 1,000 concurrent users, boosting reliability and efficiency of content delivery by synchronizing with an mdb-lookup database for dynamic content retrieval

TangleFree | Swift 🔗
- Pioneered an innovative mobile app designed to connect over 300 users with nearby Black-owned beauty salons and hairstylists, enhancing community support and accessibility. Utilized **Swift** to develop a user-friendly interface
- Streamlined the appointment booking process with a scheduling feature, reducing booking time by 2 minutes

LEADERSHIP & PROFESSIONAL DEVELOPMENT

Management Leadership for Tomorrow — Jan 2024 – present
- Accepted into a selective 18-month professional development program for high-achieving talent
- Complete business case studies and assignments to grow leadership and technical skills

Columbia African Student Association — Sep 2022 – present
President 2024-2025, Treasurer 2023-2024, First Year Representative 2022-2023
- Manage financial activities, oversee budgeting, expense tracking, and financial planning
- Coordinated the First-Year Mentorship Initiative by grouping 20 pairs of mentors and mentees