

# Scott J. Gilbert

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## Professional Experience

### Web Development Intern

June 2025 - August 2025

Team2Go Inc.

Yongin-si, Gyeonggi, South Korea (Remote)

- Engineered and deployed **Dockerized, reverse-proxied Next.js web applications** for internal tools and **AI-driven interfaces**.
- Integrated custom **OpenAI GPT models** with **streaming output, secure authentication**, and Zod-based **form validation**.
- Connected applications to **Amazon Web Services (AWS)** for **scalable cloud infrastructure**.
- **Collaborated** with executives through **regular progress updates** and delivered projects **ahead of schedule**.

**Skills:** TypeScript, TailwindCSS, Next.js, Auth.js, NGINX, PostgreSQL, Git, Github, Database Administration, Full-Stack Development

### Volunteer Web Developer

May 2024 - August 2025

Illinois Congressional Debate Association (ICDA)

Schaumburg, IL (Hybrid)

- Directed development of a full **LAMP-stack** application with **MySQL backend, React components**, and **multimedia support**.
- **Programmed, tested, and deployed** features to improve **mobile accessibility**, standardize content, and **reduce load times**.
- Integrated **administrative** solutions to enable **long-term support** with **minimal future maintenance**.
- Enhanced **website security** and **optimized infrastructure** despite technological limitations.
- Achieved **strong search visibility** with **~10K impressions** and a **22% click-through rate**.

**Skills:** HTML, CSS, JavaScript, PHP, MySQL, React, Git, Github, REST API, Full-Stack Development, Database Administration

### Volunteer Solar Energy Educator

October 2024 - April 2025

Spring Valley Nature Center

Schaumburg, IL

- Engineered an **Arduino**-based system to capture air temperature, **store** data in **SQLite**, and render **live visualizations** through a **Django web app** with a **custom thermometer interface**.
- Developed interactive **solar demonstrations** and **integrated hardware/software** elements to teach sustainability concepts.
- Designed **technical infographics** to explain residential **solar electricity generation** and **real-world applications**.
- **Collaborated** with event organizers to **deploy demonstrations** for children and families at a **community Earth Day event**.

**Skills:** Python, Arduino, Django, SQLite, Circuit Design, Solar Energy use, Database Administration

## Education

### University of Illinois at Urbana-Champaign

B.S, Computer Engineering

GPA: 4.000

**Activities and Societies:** Campus Honors Program, Illini Solar Car, Project: Code UIUC, IEEE UIUC, Marching Illini

**Relevant Coursework:** Calculus III (MATH 241), Intro to Differential Equations (MATH 285), Intro to Computing (ECE 120)

**Skills:** C, C++, Vivado, KiCad, MCUXpresso, Circuit Design

### James B. Conant High School

High School Diploma

Weighted GPA: 4.917 | Unweighted GPA: 4.000

**Activities and Societies:** Congressional Debate (captain), Marching Band (trombone section leader), Jazz Band (first chair), Honors Orchestra (first chair), Honor Band, Cross Country, Track and Field, National Honor Society

**Relevant Coursework:** AP Calculus BC, AP Computer Science Principles, AP Computer Science A, AP Physics C

## Projects

### Personal Portfolio

May 2025-Present

- Engineered a **Next.js** website integrated with a Neon **serverless database**.
- Implemented **OAuth authentication, validated forms** with **Zod**, and configured **MDX** for flexible **content management**.
- Optimized performance by integrating **incremental rendering** and developing **page-level animations**.
- Designed plans for **self-hosting** configured with a **VPN, reverse-proxy**, and **DNS**.

**Skills:** TypeScript, TailwindCSS, Markdown, Next.js, Auth.js, Motion, MDX, PostgreSQL, Git, Github, Full-Stack Development

## Other Volunteering

### Eagle Scout | Scouting America | Mar 2018 - Dec 2024

- Earned 21 merit badges, 5 other awards, and completed **over 50 hours of service** with different organizations
- Planned, organized, and **coordinated a trail restoration effort** where volunteers contributed **over 100 hours of service**

### Student Representative | Village of Schaumburg | Mar 2024 - Nov 2024

- Represented **2.5k+** students/local organizations during **planning committee** meetings for Septemberfest, a Labor Day festival
- **Coordinated** festival volunteers from Conant and **volunteered over 20 hours** at the fest that attracts **100k+ attendees** annually

## Awards

National Merit Scholarship Winner, Eagle Scout, AP Scholar with Distinction, Illinois State Seal of Biliteracy, 3<sup>rd</sup> in State Congressional Debate, President's Volunteer Service Award - Gold Medal