

ALAN ZHANG

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EXPERIENCE

Software Engineer – Full Stack Web @Toll Brothers (<i>Fortune 500</i>)	May 2025 – Current <i>Fort Washington, PA</i>
<ul style="list-style-type: none">Architected and shipped high-impact user-facing features for America's largest luxury homebuilder using Next.js and SCSS, improving clarity and engagement across thousands of property listings.Designed scalable, data-driven page templates and shared UI abstractions that power hundreds of regional and community pages, enabling rapid feature rollout with minimal regression risk.Reduced JavaScript bundle size by 15% and improved page performance by refactoring legacy components, removing 100+ redundant files, and migrating static content pipelines to AWS S3 + CloudFront.Launched a site-wide HomePrint “Print View” system, aggregating CMS-driven property data into a structured, printer-optimized format used by thousands of customers monthly.Led accessibility modernization initiatives—implementing WCAG-compliant navigation patterns, SkipToMain links, and fully accessible CustomSelect inputs—ensuring compliance across major marketing surfaces.	
Research Assistant Intern @Temple University	Aug. 2024 – Dec. 2024 <i>Remote</i>

PROJECTS

Web Portfolio <i>Next.js, GSAP, Sass, JavaScript</i>	Web Portfolio GitHub
<ul style="list-style-type: none">Developed an online portfolio using Next.js to showcase projects, skills, and experience.	
YSClunchSoccer <i>Next.js, Express.js, Prisma, Supabase, PostgreSQL</i>	Live Site GitHub
<ul style="list-style-type: none">Designed and built a full-stack platform to solve a real operational problem for our local soccer group: tracking attendance, balancing teams, and reducing pre-game coordination time from 10–20 minutes to under 1 minute.Implemented a scalable backend using Express, Prisma, and Supabase PostgreSQL, enabling reliable session creation, attendance logging, and real-time player availability tracking for 100+ recurring users.Developed secure authentication and session management using Supabase Auth, JWT cookies, and protected routes to ensure consistent login behavior across devices.Implemented an automated fair team generation algorithm using player skill history and availability data, eliminating manual balancing and reducing pre-game organization effort by 90%.	
Topflight Tracker <i>Next.js, GSAP, Axios, Sass, JavaScript, Redis</i>	Live Site GitHub
<ul style="list-style-type: none">Developed a multi-league football analytics platform displaying standings, fixtures, and results.Integrated Redis caching to reduce duplicate API calls and cut data-fetching latency, improving load times.Implemented monitoring and fallback logic for third-party API outages, increasing system reliability and ensuring consistent user experience during peak match periods.	
StreamerTracker TFT <i>Python, Flask, PostgreSQL, Next.js, GSAP</i>	Live Site GitHub
<ul style="list-style-type: none">Built a streamer tracking app for Teamfight Tactics showing match history, team compositions, and augments.Implemented a Flask backend with API integrations and a scalable Neon PostgreSQL database.	

EDUCATION

University of Maryland – College Park <i>Bachelor of Science in Computer Science</i>	Aug. 2022 – May 2025 <i>College Park, MD</i>
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TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, Java, SQL, C++
Front-end/Back-end Technologies: React.js, Next.js, Node.js, HTML, CSS, SCSS, Tailwind CSS, GSAP, Flask, Express.js, GraphQL, REST APIs
Database & ORM Technologies: PostgreSQL, MySQL, MongoDB, Redis, Prisma, SQL
Cloud & DevOps: Git, GitHub, GitLab, Bitbucket, AWS (S3, CloudFront), Docker, Jira, Vercel, Supabase