

# Zelun He

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## EDUCATION

**Bachelor of Science in Computer Science**, Minor in Mathematics  
Missouri State University

**December 2025**  
*Springfield, MO*

## Technical Skills

Languages: C++, C, Python, JavaScript, TypeScript, Kotlin, Svelte

Frameworks & Libraries: SvelteKit, Next.js, FastAPI, PyTorch, TensorFlow, Tailwind CSS, Pandas

Databases & Tools: PostgreSQL, Prisma ORM, Sanity, Cloudflare, Vercel, Wireshark, Railway

## EXPERIENCE

### Software Engineer

**May 2026 – Present**

Arrows Up

- Rebuild and modernize 21+ client websites from the ground up following client discovery meetings, delivering full redesigns across UI, routing, and CMS integration using SvelteKit
- Migrate all client websites to internal V2 platform, reworking SEO pages and implementing design updates while deploying through GitHub Actions CI/CD pipelines
- Configure Cloudflare Workers and Sanity CMS across client projects, implementing analytics tracking and third-party integrations to support scalable content management workflows
- Develop reusable SvelteKit templates standardizing component architecture across projects, reducing deliverable timelines by 50% as tracked in Jira

### Software Engineering Intern

**June 2025 – May 2026**

MyOasis.ai

- Led the front-end implementation of the MyOasis landing page using React, TypeScript, and Tailwind CSS
- Improved cross-device performance by optimizing React render paths and responsive layouts, reducing UI latency and improving mobile usability

### Research Assistant – Deep Learning

**January 2025 – December 2025**

Missouri State University

- Conducted ablation studies on Transformer architectures (Dozerformer) for time series forecasting, isolating encoder vs decoder contributions to streamline real-world models

### Software Engineering Intern

**June 2025 – August 2025**

N-of-1 AI

- Architected a clinical documentation app with FastAPI, Next.js, and OpenAI APIs for audio transcription and note management, developing a secure scalable backend with production-ready deployment

## PROJECTS

### Scribsy – AI-powered Journaling & Note Intelligence Platform

**June 2025 – Present**

- Designed the ML-driven documentation pipeline powering audio-to text transcription and SOAP note generation, integrating model orchestration with secure data flows and multi-tenant handling
- Implemented the platform's deployment stack, including storage layers, API gateways, CI/CD automation, and cloud service configuration, for reliable end-to-end operations across Railway, Vercel, and S3

## PUBLICATIONS

- **He, Z.**, Housholder, C., Ning, X., Zhang, Y. "Rethinking the Encoder-Decoder Structure for Transformer-Based Time Series Forecasting." Information Technology: New Generations (ITNG), Springer, 2026

## LEADERSHIP

### President

**August 2024 – December 2025**

Association of Computing Machinery

- Grew and led MSU's primary computing organization; coordinate workshops, tech talks, and career events, increasing engagement by 50% and expanding industry partnerships