Robert McCrary

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EDUCATION

Kennesaw State University   Marietta, GA
Bachelor of Science in Computer Science   *August 2024 – May 2028*

Course Work
CSE 1321(Java), CSE 1322(Java), Discrete Mathematics

EXPERIENCE

Full Stack Team Lead   September 2024 - Present
AI Club at KSU (ksuaiclub.com)   *Marietta, GA*

- Leading the development of the **Ask Scrappy Chat website**, an AI-powered platform leveraging a Retrieval-Augmented Generation (RAG) model, specifically trained on **KSU-related data such as course catalogs and professor ratings**.
- Building the frontend using **Next.js** to deliver a dynamic, responsive, and user-friendly interface tailored for KSU students.
- Designing **user onboarding workflows, streamlining account creation** and personalized access to academic resources through the platform.

Co-Founder and Lead Developer   November 2024 - Present
PseudoAI (pseudoai.dev)   *Remote*

- Built and launched an **AI-powered coding interview prep platform** for tech job seekers, using Next.js, MongoDB, Clerk, and Stripe for a seamless full-stack experience.
- Engineered and Deployed the core AI features like real-time pseudo code generation, dynamic hints, and retrieving context of the user's code for more personalized user experience.
- Established a **CI/CD pipeline** with environment separation(development vs. production), leveraging Vercel's GitHub integration for seamless, **continuous deployment** and implemented a lightweight **SCRUM workflow** to streamline team collaboration and **sprint planning**.
- Recieved offers up to **$5,000** in initial seed funding to fuel early growth, **validate product-market fit**, and position PseudoAI as a rising competitor in the coding interview prep space.

PROJECTS

OwlSpot | *React Native, Node.js, Express.js, Flask, Python*   February 2025

- Developed a full-stack mobile app to improve **parking and traffic management** during Kennesaw State University sporting events.
- Built a **Node.js backend API** to handle user authentication and core application logic.
- Integrated a Flask-based API, developed by a teammate, to display real-time CCTV footage and **identify available parking** spots using **computer vision.**
- Won **1st Place** at the KSU Sports Innovation Hackathon, earning **$3,000** in prize funding.

Compiler From Scratch | *Go*   August 2024

- Developed a **lexer** to tokenize raw source code into a stream of tokens for further processing.
- Built a simple **parser** to process the token stream and generate an **Abstract Syntax Tree (AST)**, representing the syntactic structure of the program.
- Validated the structure of the AST to ensure correct parsing of language constructs and handled syntax errors during parsing.

TECHNICAL SKILLS

AWS: Lambda, IAM, Cognito, RDS, EC2, Load Balancing, API Gateways, VPC
Databases: PostgreSQL, MySQL, SQLite, MongoDB, Supabase
Languages: Java, Python, C++, SQL, JavaScript, TypeScript, Go, Lua
Frameworks: React, React Native, Node.js, Express, Next.js, OpenGL
Developer Tools: Neovim, Git, Postman, GitHub, GitLab
Libraries: pandas, NumPy, Matplotlib, Torch