

# Kevin Huy Trinh

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## Skills

- JavaScript | Python | HTML | CSS | Node | React | Flask | NoSQL | MongoDB | Restful API |
- AWS | CI | CD | Agile | OOP | Windows | Linux/Unix OS | Microsoft Office | Excel | Word | Git | GitHub | Open Source | Docker |
- Frontend | UI | UX | Backend | Full-Stack | Web Development | English, Vietnamese – *All professional proficiency or above*

## Experience

### CS Research Intern @ St. Mary's University, San Antonio, TX

05/2023 - 08/2023

- Conducted in-depth research on compiler design, focusing on high-level to low-level language translation.
- Developed a lightweight translator featuring parser, lexer, and semantic analyzer modules to convert custom code into assembly language for a custom virtual machine.
- Collaborated with mentors to refine skills and deepen understanding of language design principles and compiler methodologies.
- Presented research and project outcomes at multiple universities, demonstrating language processing and compiler design expertise.
- Conducted extensive literature review on language design, parsing techniques, and compiler optimization strategies, enhancing understanding of theoretical concepts.

### Front End Developer @ NP Engagement, San Antonio, TX

08/2022 - 11/2022

- Maintained and updated numerous client websites and online services, ensuring peak performance and relevance with proficiency in HTML, CSS, JavaScript ES6, DNS, and WordPress Tools.
- Integrated custom API scripts, and optimized websites to fulfill unique client requirements and enhance user experience.
- Utilized my proficiency in WordPress, crafting visually stunning and highly functional platforms tailored to precise client specifications, ensuring optimal user engagement.
- Drove tangible business growth and significantly boosted client visibility and traffic by orchestrating cross-functional teamwork, applying my technical skills and strategic insights.

## Projects

### Prize Pick Predictions [\[View Source Code\]](#)

03/2024 - Present

- Created a full-stack application tailored for Prize Picks sports betting predictions using Python, Flask, Restful APIs, ReactJS, and MongoDB.
- Leveraged data analysis techniques to extract valuable insights from NBA data, enhancing prediction model accuracy.
- Developed algorithms with linear regression models, integrating player performance data and team Elo ratings to generate precise betting predictions.
- Employed AWS for scalable server hosting, ensuring the application's reliability and high availability.
- Showcased software engineering best practices, including Git version control, testing, and agile development throughout the project lifecycle.

### Hycord Client [\[View Source Code\]](#)

12/2022 - Present

- Developed a Python Discord client integrating Hypixel API and playerDB API to visualize in-game data statistics and manage player authorization.
- Managed data for over 500+ server guild members using MySQL, providing a reliable storage solution for server member information.
- Implemented an efficient API cache system to optimize command execution and output retrieval, ensuring smooth performance even under heavy loads.
- Implemented Continuous Integration/Continuous Development (CI/CD) practices to facilitate seamless updates and maintain high-quality code standards.

### Github Automated Followers [\[View Source Code\]](#)

07/2024 - 08-2024

- Designed and implemented an asynchronous JavaScript application to boost profile growth, presence, and interactions on GitHub.
- Engineered an automated solution leveraging advanced algorithms meticulously crafted to emulate human interaction seamlessly, aiming to organically expand GitHub followership while strategically managing to follow and unfollow actions for a fluid and natural progression of interactions.
- Developed supplementary tools that integrate seamlessly with the application, providing functionalities such as notifications, data visualization, daily/weekly/monthly reports, and other features to enhance user experience (UX) and streamline interaction management.

## Education

### University of Houston

Houston, TX, USA

08/2024 - 05/2028

- GPA: TBD
- Major in computer science. (Bachelors of Science)
- Activities and Awards: Cougar CS Club, Chess Club, UH Engineering CO-OP program, Society of Asian Scientists and Engineers (SASE).
- Relevant Coursework: Introduction to computer science programming

### San Antonio College

San Antonio, TX, USA

08/2023 - 05/2024

- GPA: 3.86
- Awards: Fall 2023 Dean's List, Spring 2024 President's List