

<div> <div>Pranav Dronavalli</div> <div> +1 913-260-1499 Gmail LinkedIn GitHub Website </div> </div>	
Education	
<div> <div>University of Wisconsin–Madison</div> <div>B.S. Computer Sciences</div> </div>	Aug. 2021 – Dec. 2024
Experience	
<div> <div>Capital One</div> <div>Software Engineer</div> <div> <ul style="list-style-type: none"> Full-Stack development on the Payments microservice in the Velocity Black platform. Developed frontend (React/React Native) and backend features using TypeScript across the stack, leveraging Stripe auth, VCN provisioning, and RabbitMQ within an event-driven architecture to support secure, scalable, and reliable payment flows. Created and launched a universal checkout/reservation feature across all horizontals, vastly reducing checkout times by eliminating the need for manual agent involvement and significantly improving the consumer experience. Delivered HSD/PCI encryption and redaction cross-service within Messaging to meet a compliance deadline – implemented encrypted message storage within RDS and managed schema via Knex migrations. </div> </div>	<div> <div>Chicago, IL</div> <div>Feb. 2025 – Present</div> </div>
<div> <div>Capital One</div> <div>Intern</div> <div> <ul style="list-style-type: none"> Contributed to internal MLaaS Platform used that identifies anomalies for fraud detection. Data and insights from the platform save the company over \$600 million in potential losses. Created functionality for parameter sharing across ML workflows reducing redundancies and error in tool usage. Added typing within React UI and Python SDK while preserving backwards compatibility. </div> </div>	<div> <div>Plano, TX</div> <div>Jun. 2024 – Aug. 2024</div> </div>
<div> <div>Enterprise Rent-A-Car</div> <div>Intern</div> <div> <ul style="list-style-type: none"> Built ETL pipelines for analytics using Airflow; NestJS API to integrate Google Looker Studio in Angular app. Improved ML model precision by 6% using a shallow neural network model for model aggregation in PyTorch. </div> </div>	<div> <div>Madison, WI</div> <div>May. 2023 – Aug. 2023</div> </div>
<div> <div>Wisconsin Institute for Discovery</div> <div>Undergraduate Researcher</div> <div> <ul style="list-style-type: none"> Under Prof. Robert Hawkins, contributed to research bridging the gap between GenAI and human cognition. </div> </div>	<div> <div>Madison, WI</div> <div>Dec. 2023 – Sep. 2024</div> </div>
Projects	
<div> <div>Swapper Go, React, TypeScript, RavenDB</div> <div> <ul style="list-style-type: none"> Won 1st place at RavenDB hackathon (out of 2000 participants) for virtual trading application. Developed full stack with features: spatial search, fuzzy search, user profiles, interactive messaging, and item/profile ratings. </div> </div>	Feb. 2024
<div> <div>Cryptify Rust</div> <div> <ul style="list-style-type: none"> Created and maintain open source library with 15,000+ downloads used to obfuscate Rust programs at runtime and at rest. Includes features to obfuscate source code directly with variable renaming and direct flow obstruction. </div> </div>	Jan. 2024
<div> <div>Distributed File Transfer Python</div> <div> <ul style="list-style-type: none"> Designed UDP-based file transfer protocol with custom packet format, addressing scheme, and packet reassembly. </div> </div>	Sep. 2024
<div> <div>PranavBot Node.js, AWS Lambda, API Gateway, ECR, CloudFront, Astro</div> <div> <ul style="list-style-type: none"> Built serverless chatbot with Lambda, ECR, and a fine-tuned LangChain model to answer questions on my website. </div> </div>	Sep. 2023
Leadership & Achievements	
<div> <div>Undergraduate Projects Lab Coordinator</div> <div> <ul style="list-style-type: none"> Hosted workshops, tech talks, and CS department-sanctioned events; provided tutoring to students. </div> </div>	Dec. 2022 – Dec. 2024
<div> <div>MadHacks Organizer</div> <div> <ul style="list-style-type: none"> 3x organizer of the largest hackathon at UW-Madison (650+ applicants, 300+ attendees, \$15,000+ in funding) </div> </div>	Feb. 2023 – Dec. 2024
<div> <div>GitHub Campus Expert</div> <div> <ul style="list-style-type: none"> Lead instructional workshops and represented GitHub within CS department of 3,000 students. </div> </div>	Dec. 2023 – Dec. 2024
Skills	
Go, Python, JavaScript, TypeScript, Rust, Java, C, C++, SQL, AWS, RabbitMQ, React, React Native, Astro, Angular, Node.js, NestJS, Express, HTML/CSS	