

Ruslan Akmyradov

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EDUCATION

University of Maryland, College Park

College Park, MD

BS in Computer Engineering & Mathematics | GPA: 3.9

Expected Graduation: May 2029

- **Relevant Coursework:** Data Structures & Algorithms, Linear Algebra, Multivariable Calculus, Differential Equations, Introduction to Computer Systems
- **Honors:** 2nd Place Harvard x MakeMIT, Best UI/UX YaleHack, Best Design PennApps XXVI, 2nd Place HopHacks 2025, Best Digital Forensics Hoya Hacks 2026, AFSA Scholar 2025
- **Activities:** TerpsRacing EV, App Dev Club, Startup Shell

WORK EXPERIENCE

Software Engineer Intern

May 2025 — Present

Copperlane (YC W26)

San Francisco, CA

- Built a Python/FastAPI integration platform for 4 mortgage data systems, standardizing adapter interfaces, webhook ingestion, and conformance tests so new providers could plug in without rewriting core loan workflows.
- Reworked loan ownership and access control across 15+ backend paths, replacing name-based matching with indexed user-ID lookups in Postgres to prevent incorrect loan visibility across staff and borrower workflows.
- Shipped deterministic document automation across React and FastAPI surfaces, identifying missing W-2/paystub/asset documents, matching uploads to requirements, and notifying loan officers safely under retries and concurrent processing.

Software Engineer Intern

Aug 2024 — Aug 2025

Temple Allen Industries

Rockville, MD

- Designed and implemented autonomous repositioning algorithms and controllers in C++ using ROS 2, enabling precise real-time control of industrial scissor lift systems
- Developed a ROS 2 odometry package implementing the Ackermann motion model using a Kalman-filtered IMU and rotary encoder system
- Built sensor drift correction and real-time visualization pipelines using C++, pandas, and Matplotlib, improving measurement accuracy by 40%+
- Tuned and deployed PID controllers in ROS 2 to improve robotic arm control stability during surface-contact tasks

PROJECTS

Co-Creator, HotBillsNearYou.com - Best UI/UX YaleHack 2026 (hotbillsnearyou.com)

March 2026

- Created a swipe-based platform for users to explore state legislation and raise civic engagement in local communities
- Wrote ELO algorithms for bill-ranking and user bias estimation to match users with other like-minded users
- Built with Next.js, Flask, Supabase, and Docker to fully deploy the product for anyone to access

Creator, noogie — News Platform - PennApps XXVI Best Design (github.com/ruslanannn2/noogie)

Oct 2025

- Built a news platform that clusters and summarizes articles using FAISS vector search and sentence embeddings for semantic deduplication
- Designed scalable backend APIs for article ingestion, parsing, clustering, and summarization
- Implemented an interactive D3.js visualization interface for exploring topic clusters and generated summaries

Creator, Daily Indigest - 2nd Place HopHacks 2025 (github.com/ruslanannn2/Daily-Indigest)

Sep 2025

- Built a real-time tweet visualization platform mapping geolocated trends using Deck.gl and SpacetimeDB
- Integrated an LLM-based analysis pipeline to generate automated explanations and sentiment insights for trending topics
- Developed backend endpoints for ingesting, flattening, and serving live trend and geospatial data streams

SKILLS

- **Languages:** C++, Python, Rust, Java, C, TypeScript, JavaScript, SQL, Bash, Verilog, MATLAB
- **Systems & Infrastructure:** Linux, ROS 2, Embedded C++, CPU Design, PID Control, AWS, Docker, Kubernetes
- **Backend & Databases:** FastAPI, Node.js, REST APIs, DynamoDB, Aurora, SpacetimeDB, Supabase
- **Tools:** React, KiCad, SOLIDWORKS