Barnabas Novak

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EDUCATION

California State University Los Angeles   *May 2025*
Bachelor of Science in Computer Science · Minor in Real Estate
Magna Cum Laude · Honors College · Dean List - All Semesters

SKILLS

Languages *Proficient* Java(3yrs) · Python(2yrs) · *Intermediate* Kotlin(1yrs) · C++(2yrs) · SQL(2yrs) · JavaScript(1yrs) · HTML(4yrs)
Software VSCode · MatLab · Unity · Final Cut Pro · Canva · JupyterNotebook · Vercel · Bootstrap · Google Colab · Azure · Tableau

EXPERIENCE

godknows.ai - Startup Project Founder - https://godknows.ai   *Oct 2025 - Present*
- Founded an AI-driven educational platform empowering learners and early professionals to study smarter and launch their careers.
- Integrated multiple AI tools including chat, summarizer, flashcard and quiz creators, lesson generator, and career launchpad.
- Built a dynamic community Feed for users to share work, join challenges, and connect with peers.

Neumann Series Website - Director of operations - https://neumannseries.com   *Dec 2024 - Present*
- Part of the organizer team and developed conference website from scratch to fully functioning website using HTML, CSS

Association of Educational Service Agencies - Intern   *Sep 2025 - Present*
Association of Educational Service Agencies   United States
- Member of the AESA Global Team, contributing to website development and continuous improvement.
- Edit and produce videos for AESA's social media channels to enhance engagement and visibility.
- Support event organization by managing backend operations, ensuring registration systems and IT infrastructure function smoothly.

Tulipan Foundation - Independent Contractor   *Sep 2025 - Present*
Tulipan Foundation   United States
- Manage both frontend and backend aspects of the Tulipan Foundation website, data management, and performance.
- Provide on-site IT support during events, handling registration systems, audio-visual setups, and technical logistics.

Battery Workforce Challenge Charging Eagles - President   *Sep 2023 - Present*
Battery Workforce Challenge Charging Eagles - Vocational Liaison   *Sep 2024 - Present*
California State University Los Angeles   Los Angeles, CA
- Led communications with project managers, faculty, sponsors, teams, and vocational partners
- Fostered teamwork, promoting equal participation across diverse student majors
- The Battery Workforce Challenge is a three-year competition where students design, build, and test EV battery packs

Hungarian Young Professional Engagement Network (HYPE) - Co-Founder   *Jun 2024 -Present*
Hungarian American Coalition   United States
- Expanding the Hungarian American Coalition's leadership initiatives for Hungarian professionals in the U.S

Software Engineering Fellow   *Jun 2024 - Mar 2025*
Headstarter   New York, NY
- Spearheaded cloud workshops on compute/storage/databases as part of 200 ambassadors nationwide
- Coached by Google Machine Learning, Google Kubernetes, Two Sigma, Tesla, Figma and Citadel Engineers
- Developed 5+ neural networks in Python, apps in Typescript on Vercel with dev and production environments

Optimization & Simulation Engineering Intern   *Aug 2024 - Aug 2024*
Audi & University of Győr   Győr, Hungary
- Optimizations for powertrain systems using C++ and MATLAB to automate data analysis and simulation processing
- Project Manager and team won the Best ESG concept award

NOTABLE PROJECTS

US-Bank Churn Prediction | Solo Project *(~30 hours)* - https://github.com/BarnabasNovak1/ChurnPrediction   *Oct 2024*
- Used 30k+ data set, Llama 3.1b, Groq and Vercel to evaluate accuracy of predicting when banking customer quits
- Created an end-to-end solution complete with sending automated personalized email to banking customer based
  on feature engineering, normalization, model training, evaluating and hyperparameter tuning across 5 LLM models

Brain Tumor Classification | Solo Project *(~20 hours)* - https://github.com/BarnabasNovak1/Brain-Tumor-Classification-with-Neural-Networks   *Nov 2024*
- Used neural networks in Python to classify 1000 MRI scans into 3 types of possible brain diseases with custom model
- Generated multimodal MRI reports for neurosurgeons in under 200MS after image classification, construction & training

Activities

HungarianHub | Publishing blogs, connecting with Hungarian readers not just in the US but all over the world   *Dec 2020 - Present*
New York Marathon Finisher | Youngest Hungarian ever to complete   *Nov 2021*
Teqball | 138th in Men's Doubles World Ranking

Certificates

Mendix | Certified in 2024 - Mendix Rapid Developer, **Infoblox** | 2024-2026 - Infoblox Qualified NIOS DDI Operator,
dSpace | Certified in 2023 - XiL Simulations and HIL Development, **MathWorks** | Certified in 2023 - Matlab Onramp Certificate
WorldQuant University | Certified in 2025 - Applied Data Science Lab Program