

# ABDUL AAHAD VAKANI

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## EDUCATION

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Indiana University Bloomington · <i>PhD in Information Science</i>	August 2026 - May 2031
DePauw University · <i>Bachelor of Arts in Computer Science &amp; English Writing Honors Program</i> · Presidential Ambassador · Dean's List	August 2022 - May 2026

## PROJECTS

### Offbrand Simulator · *Viral Management Game*

*React, JavaScript, Firebase* — January 2026 — [ludwig.aahadv.com](https://ludwig.aahadv.com)

- Built roguelike business simulator attracting **2,000+ organic users** in first month, featured on Ludwig Ahgren's YouTube (**165K+ views**, 1M+ subscribers)
- Engineered three-resource economy with 19+ synergistic power-ups, Firebase leaderboards, and real-time analytics
- **Shipped v2.0 within 14 days** of live feedback, patching exploits discovered during 1.3K+ organic search-driven traffic spike

### CodeBoard · *Multilingual Research Platform*

*Next.js, Express.js, PostgreSQL, Prisma, FastText* — February 2025 – Present

- Developed full-stack community-sourced platform for collecting code-switching data with social context annotations across **176+ languages** and 12+ scripts including romanized Urdu, Hindi, Arabic, and Persian
- Integrated FastText language identification for automatic switch point detection with user verification, creating computationally usable and sociolinguistically grounded training data
- Built interactive dashboards with real-time analytics showcasing language pair trends, platform distribution, formality levels, and regional analyses using React, Tailwind CSS, and Radix UI
- Engineered flexible PostgreSQL schema supporting any language combination via Prisma ORM and Supabase integration
- **Secured IRB approval** for faculty pilot testing to validate annotation scheme for pragmatic functions (formality, audience, communicative intent); preparing findings for **ACL 2026** publication

### Branches · *AI-Powered Decision Tool*

*React, D3.js, Node.js, Google OAuth* — September – December 2025

- Created decision tree visualizer generating weighted outcome scenarios with D3.js 3D visualization and AHP probability scoring
- Delivered as CS capstone with manual tree editing, OAuth authentication, and long-term decision tracking system

## EXPERIENCE

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Resident Assistant · <i>DePauw University</i>	January 2025 – Present
• Support crisis management and peer mentorship for 80+ students; analyze survey data to inform residential technology needs	

Information Technology Intern · <i>DePauw University</i>	May 2024 – Present
• Automated IT workflows and ticketing systems, <b>improving resolution speed by 20%</b> ; supported university-wide SSO transition	

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, Java, C, C++, SQL, HTML, CSS

**Frameworks & Tools:** React.js, Next.js, Node.js, Express.js, FastAPI, D3.js, Firebase, PostgreSQL, Prisma, Git, AWS

**ML/Data Science:** PyTorch, TensorFlow, scikit-learn, pandas, matplotlib, FastText, Transformers, spaCy

**Multilingual:** Native fluency in English, Urdu, Sindhi, Hindi · 176+ language NLP system experience