

# Adhitya Thirumala

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## EDUCATION

**University of Illinois Urbana-Champaign** 2024-Present  
*Major: Computer Science + Linguistics* GPA: 4.0/4.0  
**Fox Chapel Area High School** 2020-2024  
 GPA: 4.32/4.0 (Top 10%), SAT: 1550 (790 Math, 760 EBRW)

## RELEVANT COURSEWORK

**College:** CS 124, CS 124 Honors, MATH 241 (Calculus III)  
**High School:** Linear Algebra, Data Structures and Algorithms, AP Computer Science A (5), AP Physics C: Electricity and Magnetism (5), AP Calculus BC(5), AP Calculus AB(5), AP Physics C: Mechanics (4)

## SKILLS

**Languages:** Python, Java, HTML, Bash,  $\LaTeX$ , YAML, TOML, SQL, Go, C  
**Tools:** Git/GitHub, Github Actions, Vim, Huggingface, Linux, Maven, Gradle, SQLite  
**Libraries:** pandas, NumPy, Matplotlib, Tensorflow, pyTorch, Sci-Kit Learn, Swing (Java), Spring Boot (Java)

## PROJECTS

**matched.lol - In Progress** | *Java, Go, SQLite* September 2024 - Present  
 • Lead backend developer for web/mobile application to match League of Legends players based on preference  
 • Developed a RESTful API using Spring Boot and Go to handle user requests  
 • Utilized SQLite to store user data and preferences  
 • Implemented OAuth2.0 for user authentication with Discord and Riot Games

**Clickbait Classification and Spoiling Using NLP (arXiv)** | *Python, Torch* Oct 2022 - May 2023  
 • Developed natural language processing models to classify and spoil clickbait  
 • Utilized Large Language Models and prompt engineering alongside traditional transformers models to generate spoilers  
 • Results submitted to *The 17th International Workshop on Semantic Evaluation*: Toronto, Canada 2023  
 • Mentored by Dr. Elisa Ferracane

**Extractive Question Answering on Queries in Hindi and Tamil (arXiv)** | *Python, Torch* Oct 2021 - May 2022  
 • Developed Extractive Question Answering (QA) models in Tamil and Hindi with public dataset  
 • Improved performance of such models as compared to gold-standard by over 20% in both Hindi and Tamil  
 • Modified RoBERTa tokenizer to accept input in Hindi and Tamil to minimize need for data and training  
 • Received 26th Annual Senior Division Carnegie Science Award presented at annual Gala to fundraise for Carnegie Science Center and to honor Pittsburgh's scientists and researchers  
 • Mentored by Dr. Elisa Ferracane

**Java Jackpot Fox Den Casino** | *Java, Swing, Maven* May 2024  
 • Created Baccarat game for Data Structures and Algorithms class with persistent scoreboard, and HTTP Client utilizing Random.org API for true-random Casino mechanics.  
 • Hosted source code on [Github](#)  
 • Presented project in front of district administration as part of in-classroom enrichment opportunity

## WORK EXPERIENCE

**Private Debate Coaching** | *Freelance* 2024 - Present  
 • Conducted 4-6 hours of research weekly for national circuit debate competitors from Whitney M. Young Magnet High School, Gunn Senior High School, and Edison College Preparatory High School.  
 • Met to teach important debate skills and review past tournament performance twice a week  
 • Coached five teams to first-time elimination round finishes and consistent national circuit tournament placements

## ACTIVITIES

**Clubs:** Association for Computing Machinery, GNU/Linux User Group, Illini Speech and Debate, SIGNLL (ACM NLP Special Interest Group)

## MISCELLANEOUS

**High School Clubs:** Speech and Debate (President), Science Fair (President)  
**High School Awards:** 2x State Championship Policy Debate, NMSQT Finalist, Broadcom MASTERS Top 300, Premier Distinction NSDA Honor Society, Presidential Volunteer Service Bronze Award, Presidential Volunteer Service Gold Award