# Vidith Madhu

linkedin.com/in/vidith-madhu | github.com/vidithm

Plano, TX

(469) 323 2111

vidhmadh1892@gmail.com

## Education

Texas A&M University, College Station                            Aug 2020 - May 2024
- Current GPA 4.0/4.0
- Engineering Honors, Computer Science major
- Undergraduate Research Scholar

## Experience

Amazon | Software Development Engineer Intern                   May 2022 - Aug 2022
- Working within AWS CodeSuite to develop new feature for CodeArtifact
- Using DynamoDB, S3, Lambda, Athena, Kinesis, CloudWatch, and CloudFormation
to develop and deploy new architecture harvesting service logs for download metrics

Algorithms Research                                             May 2022 - Present
- Working on a linear algebraic adaptation of Luby's MIS algorithm
for graph matching and coarsening
- Algorithm + thesis will be released in the LAGraph library

## Activities / Leadership

Competitive Programming Club Officer                            Sep 2020 - Present
- One of ~20 students that represent Texas A&M in the ICPC (International Collegiate Programming Contest)
- Curriculum officer - develop and teach competitive programming material from novice to advanced levels
- Placed 3/41 in local programming contest on an all-freshman team
- Encourage and lead fellow team members to think creatively to solve challenging problems
  embedded in various algorithmic domains

## Skills

Programming Languages/Tools
- Comfortable with C++, Java, JavaScript/NodeJS, Python, Rust, HTML/CSS

## Featured Projects

**Goto Music** | Auto-skips YouTube music video intros | Uses custom spectrogram matching algorithm
**CPU Rasterizer** | Wrote a basic 3D CPU rasterization pipeline with texturing/coloring in C++
**Endless Shooter Game** | Used Unity 3D to develop a FPS with AI bots and physics-based projectiles

## Awards

Bronze Medalist Team @ ICPC South Central USA Regionals 2022
Best Hardware Hack Winner @ TAMUHack 2021 | https://devpost.com/software/ghost-faucet
3rd Place Category Award Winner @ EarthXHack 2019 | https://devpost.com/software/viser