

# DANE WILLIAMS

dwilli36@nd.edu | danewilliams.me | 425 988 4749  
linkedin.com/in/danerwilliams | github.com/danerwilliams

## Education

### University of Notre Dame

**B.S. Computer Science**, College of Engineering

Notre Dame, IN  
Aug. 2018 - May 2022

- Cumulative GPA: 3.68/4.0, Major GPA: 3.84/4.0
- Relevant Coursework (Completed): Data Structures & Algorithms, Systems Programming, Discrete Math, Logic Design, Computer Architecture
- (Fall 2020): Compilers & Language Design, Theory of Computing, Programming Paradigms, Case Studies in Computing Entrepreneurship

### Eastside Catholic School

Salutatorian; GPA: 3.99/4.0

Sammamish, WA  
Aug. 2014 - May. 2018

## Experience

### AT&T

Technology Development Program Intern

San Ramon, CA  
Jun 2020 - Aug 2020

- Incoming intern at AT&T

### Symetra

Cloud Intern

Bellevue, WA  
May 2019 - Aug 2019

- Gathered and visualized over 20,000 network infrastructure related data points by writing various python scripts which drove strategy leading to over \$50k in monthly circuit savings
- Automated invoice processing with python, boto3 SDK, AWS Machine Learning: Textract (Optical Character Recognition) and Comprehend (Natural Language Processing), as well as other AWS services: SQS, SNS, and S3

### University of Notre Dame

Data Visualization Researcher

Notre Dame, IN  
Aug 2020 - Present

- Incoming researcher under Dr. Chaoli Wang working with D3.js data visualization tools

### Notre Dame Venture Capital

Investment Associate

Notre Dame, IN  
Aug 2019 - May 2020

- Selected to take part in a small group of Notre Dame students who invest university endowment funds in seed stage startups
- Worked with a team of 4 students + Notre Dame alumnus at Pivot North Capital in Menlo Park, CA to create investment proposals

## Projects

- **Tmux Dracula Theme:** Open source maintainer and contributor for the official Dracula Theme, [github.com/dracula/tmux](https://github.com/dracula/tmux)
  - Developed a tmux (terminal multiplexor) extension from scratch in shell which was accepted to the official dracula theme: [draculatheme.com/tmux](https://draculatheme.com/tmux)
  - Used API's, webscraping, and Unix pipelines to gather network, power, weather, and date/time data to display in tmux status bar.
  - Commit code, merge pull requests, perform code reviews, and manage issues (bugs, feature requests, todos) for the project.
- **Pork Chop Chat Bot:** An AI chat bot written in python, [github.com/danerwilliams/pork-chop](https://github.com/danerwilliams/pork-chop)
  - Developed a groupme chat bot in python that participates in conversation as well as respond to custom command modules.
  - Runs on a Flask server and can be trained for conversation from a custom csv dataset or other corpus files using the ChatterBot module.
- **Spidey Web Server:** A simple http web server written in C
  - Developed a simple http web server in C similar to Apache or Nginx, with both single and concurrency modes
  - Deployed server to an AWS EC2 virtual machine, available for demonstration at [aws.danewilliams.me:9898](https://aws.danewilliams.me:9898)

## Activities & Awards

### Notre Dame Men's Water Polo

Nationals Qualifier, Conference Champion, Elected Team Officer

Notre Dame, IN  
Aug 2018 - Present

### Washington Athletic Club 101 Scholar Athlete

Award Recipient

Seattle, WA  
May 2018

## Certifications

- **The University of Texas at Austin:** Think Before You Design Think
  - UT Austin coursework offered at AT&T on utilizing design thinking principles to develop customer centered engineering and business solutions

## Skills

**Languages:** Python, C++, C, Shell, Verilog, Java, HTML/CSS, ARM Assembly

**Technologies:** Linux/Unix, AWS, Git