

DANE WILLIAMS

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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
- Relevant Coursework (Fall 2020): Compilers & Language Design, Theory of Computing, Programming Paradigms

Eastside Catholic School

Salutarian; 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

Undergraduate Researcher

Notre Dame, IN
Aug 2020 - Present

- Incoming researcher with Dr. Chaoli Wang working with D3.js

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
 - Developed a tmux (terminal multiplexor) extension from scratch in shell which was accepted to the official dracula theme: 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
 - 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

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 - Level 2 Design Thinking Certified
 - 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