DANE WILLIAMS

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Education

University of Notre Dame   Notre Dame, IN
B.S. Computer Science, College of Engineering   *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   Sammamish, WA
Salutatorian; GPA: 3.99/4.0   *Aug. 2014 - May. 2018*

Experience

AT&T   San Ramon, CA
Technology Development Program Intern   *Jun 2020 - Aug 2020*
- Incoming intern at AT&T

Symetra   Bellevue, WA
Cloud Intern   *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   Notre Dame, IN
Data Visualization Researcher   *Aug 2020 - Present*
- Incoming researcher under Dr. Chaoli Wang in the Department of Computer Science and Engineering working with D3.js data visuzalization tools

Notre Dame Venture Capital   Notre Dame, IN
Investment Associate   *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 on emerging technology companies

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   Notre Dame, IN
Nationals Qualifier, Conference Champion, Elected Team Officer   *Aug 2018 - Present*

Washington Athletic Club 101 Scholar Athlete   Seattle, WA
Award Recipient   *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