Dominick Ta

Graduate student with focus on computer networks and tech for good

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EDUCATION

University of Washington	**Seattle, WA**
M.S. in Computer Science	*Sep 2022–(Est. 2024)*
University of Washington	**Seattle, WA**
B.S. in Computer Science, B.A. in American Ethnic Studies	*Sep 2018–Jun 2022*
Honors: Cum Laude, GPA: 3.88/4.00	
Carnegie Mellon University, College of Information Systems & Public Policy	**Pittsburgh, PA**
Public Policy & International Affairs Data Analytics Fellowship	*Jun 2020–Aug 2020*
Honors: Best Unofficial TA, QPA: 4.00/4.00	

EXPERIENCE

NASA Glenn Research Center　　　　　　　　　　　　　　　　　　　　**Cleveland, OH**
Graduate Research Intern　　　　　　　　　　　　　　　　　　　　　　*Jun 2022–Aug 2022*

- Worked on Cognitive Communications project in High-rate Delay Tolerant Networking group
- Researched protocol translation & load balancing to increase network throughput & interoperability

UW ICTD Lab & Local Connectivity Lab　　　　　　　　　　　　　　　**Seattle, WA**
Student Research Assistant　　　　　　　　　　　　　　　　　　　　　*Oct 2020–Present*

- Deployed 4G LTE cell sites, core networks, and wireless access points for community networks
- Assisted with digital stewards technical training program for adults and adolescents
- Manage web development team in redesign process & deployed documentation website
- Recruited and onboarded new volunteers & developed new organizational partnerships
- Coordinated with social media team to publish regular ads & technical education posts

University of Washington　　　　　　　　　　　　　　　　　　　　　**Seattle, WA**
Teaching Assistant (CSE 351, Hardware/Software Interface)　　　　　　　*Fall 2021, Fall 2022*

- Instructed weekly section review for 21 students, held weekly office hours, and graded labs and exams
- Held review session on virtual memory for 309 students

F5 Networks　　　　　　　　　　　　　　　　　　　　　　　　　　**Seattle, WA**
Software Engineer Intern　　　　　　　　　　　　　　　　　　　　　　*Jun 2021–Sep 2021*

- Developed full-stack web application to monitor SLO performance of 20+ internal services
- Assisted with company-wide production GitLab instance upgrade & (un)expected bugs

SELECTED PROJECTS

Sparks & Rec: The Eagle Creek Fire's Effect on Outdoor Recreation, Data Visualization - CSE 512　　*2022*
Worked with UW Outdoor Rec & Data Lab to develop intuitive visualizations of complex data ([Web](#))

Teaching the Internet Better, Community Networking Capstone - CSE 482　　*2021*
Developed and taught accessible educational curriculum on how the Internet works ([Blog Post](#))

HomePi Assistant, Wireless Communication - CSE 490　　*2021*
Engineered a smart home assistant accessible via FM radio with Raspberry Pi & SDR ([GitHub](#))

Character-Level Prediction - Deep Learning Model, Natural Language Processing - CSE 447　　*2021*
Trained a language-agnostic deep learning unicode-character prediction model on class-wide Pareto frontier
that achieved an average accuracy of 56% on 9 unknown languages ([Write-up](#))

HONORS & AWARDS

Nominee, College of Arts & Sciences Dean's Medal in Social Science, American Ethnic Studies	*2022*
Students' Choice Award - Sparks & Rec, UW CSE 512: Data Visualization	*2022*
Wisniewski Endowed Scholarship, Paul G. Allen School of Computer Science & Engineering	*2022*
Class of 1962 Endowed Scholarship, University of Washington Alumni Class of 1962	*2021*
Hellmut Golde Endowed Scholarship, Paul G. Allen School of Computer Science & Engineering	*2020*
Branching Out Award, University of Washington Samuel E. Kelly Ethnic Cultural Center	*2020*
Washington State Opportunity Scholarship, WSOS	*2018–2022*
Leadership 1000 Scholarship, College Success Foundation	*2018–2021*

OTHER EXPERIENCES

Tennis Racquet Stringer & Salesperson, Avanti Sports	*2019–2020*
Fundraising Chair, UW Khmer Student Association	*2019–2020*
Data Sanitation, UW Surplus	*2018–2019*
Volunteer Tennis Coach, Amy Yee Tennis Foundation, Seattle Parks & Rec, Sports in Schools	*2016–Present*

KNOWLEDGE & SKILLS

Languages: English (Fluent), Vietnamese (Elementary), Teochew (Elementary)
Networking: SDN (OpenFlow, P4), Cellular (4G, CBRS), ARP/IP, DNS, DTN/BP
Programming: Java, Python, C#, Golang, HTML, CSS, JS, D3.js, Vega/Altair, SQL
Other: Machine Learning (PyTorch), Docker, Kubernetes, Git, GitLab CI/CD, Linux, Vim
Soft Skills: Communication, Teaching, Organization, Time Management, Flexibility