

Swopnil Shrestha

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EDUCATION

Luther College

Bachelor of Arts, Computer Science & Mathematics, 3.6/4

📅 Aug 2017 – May 2021
(Expected)

- Relevant Courses: Advanced Algorithms, Operating Systems, Information Security, Machine Learning, Computer Networks
- Certifications: Amazon Web Services Certified Cloud Practitioner, Presidential Award for Academic Achievement

SKILLS & STRENGTHS

Programming Proficiency Python, TypeScript, JavaScript, Java, C#, Lisp (Scheme, Racket), SQL, HTML, CSS

Frontend React/Redux, Angular **Backend** Django, Node.js, Unix / Linux, Zsh **DevOps** AWS, Git **Others** LaTeX, TensorFlow

Strengths Agile, Scrum, Requirements Analysis, Project Management **Interests** Mountain Biking, Hiking, Acoustic Guitar

RELEVANT EXPERIENCE

Full-Stack Software Engineer Intern

WiseYak, Inc.

📅 Jun 2020 – Sep 2020

📍 Bellevue, WA (Remote)

🌐 [Project: VOD](#)

AI Driven Healthcare Technology Firm directed by leading NLP and Graph Database researchers

- Piloted telemedicine web application to remotely connect patients, doctors and hospitals and encourage virtual care from prototyping stage to successful launch within **4 months**; contributed to more than **30%** of the codebase
 - Communicated regularly with clients to analyze software requirements, moderated **project management** goals with 3 other interns, and developed multiple prototypes of components based on client requirements
 - Presented new UI guidelines within an existing UX framework to designers for feedback and iteration
 - Examined feasibility and oversaw implementation of prescription watermarking for purchase verification
- Developed comprehensive **testing strategy** and infrastructure (unit tests, integration tests)
 - Identified multiple crucial logic and security flaws and resolved them with senior engineering advisor

Full-Stack Software Engineer Intern

Venio Systems, LLC

📅 May 2019 – Aug 2019

📍 Fairfax, VA

🌐 [Project: MailViz](#)

Legislative Technology Company Specializing in Machine Learning Based Electronic Discovery

Engineered an email analytics tool utilizing interactive **network graphs** to provide meaningful analyses and identify unlawful communications in gigabytes of email data; integrated it in the company's core platform *Venio One* used by **50+** companies.

- Analyzed requirements, designed core backend and frontend infrastructure, and implemented requirements as prototypes; Collaborated with senior engineers for feedback and iteration in weekly demos and proposed an advanced filter feature
- Extended application with a robust rest **REST API** for data manipulation and tools for data export in various formats

President

Association for Computing Machinery (ACM) Student Chapter

📅 Jan 2020 – Jan 2021

📍 Decorah, IA

🌐 [Website: ACM Luther](#)

Computer Science Society with 150+ student/faculty members at Luther College

- Instructed lessons across various topics in software engineering skills and career advice including Git, Virtualization, Docker, Shell Scripting, Agile, UNIX Shell, Competitive Programming, IaaS, SaaS / Cloud Computing to **20+ student developers**
- Organized Intercollegiate Programming Contest, Luther College Hackathon, Major League Hackathon with **50+ attendees**

Teaching Assistant

Luther College - Department of Computer Science

📅 Feb 2018 – Present

📍 Decorah, IA

Tutored **Data Structures** and **SQL** to 6 or more students every week, reteaching course material in larger groups when necessary

RELEVANT PROJECTS

Opus Team Management, Co-Founder

🌐 [Project: Opus](#)

Founded a team-management web application for small businesses, directed the project through the software development lifecycle

- Developed 65% of the frontend codebase, 35% of the backend codebase, and deployed project on AWS
- Collaborated with co-founders in a scrum environment to analyze requirements, iterate on feedback, setup continuous deployment, design UI guidelines, build backend and frontend infrastructure, and design unit/integration testing framework

Developmental Divergence of Artificial Neural Networks, Author

🌐 [Expository Paper](#)

- Wrote a paper examining the history of Artificial Neural Network (ANN) research from Symbolic Systems to Deep Learning
- Presented findings to faculty and students at Luther College; executed feedback as advised by Dr. Shafqat Shad