Noah Fuery

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Education

M.S. in Electrical Engineering and Computer Science Aug. 2023 – May 2025
Chapman University *Orange, CA*

B.S. in Computer Science, Minor in Mathematics Aug. 2020 – May 2024
Chapman University *Orange, CA*

Professional Experience

Machine Learning Student Researcher Nov. 2024 – Present
Chapman University *Orange, CA*

- Conducted research on how 3 different graph neural networks can be leveraged to predict performances of NBA players across the 2024-25 NBA season
- Constructed 82 graph snapshots utilizing APIs from NBA.com where nodes represent players and edges represent shared time on the court in a game
- Implemented GCN, GAT, and GraphSAGE models which updated node embeddings to indicate who players play with affects how well they play

C++ Instructor Aug. 2024 – Present
Chapman University *Orange, CA*

- Taught C++ fundamentals to over 60 students, achieving a 97% pass rate
- Educated students on advanced topics such as memory management differences between heap and stack leading to improved understanding among learners
- Facilitated and graded 3 major programming assignments, 6 quizzes, and 2 exams throughout each semester

Calculus I Instructor Aug. 2024 – Jan. 2025
Chapman University *Orange, CA*

- Selected from pool of over 50 candidates by department leadership to teach introductory calculus
- Developed 42 lecture presentations, 8 quizzes, and 3 comprehensive exams
- Achieved a 4.6/5.0 student satisfaction rating across all fields from course evaluations
- Mentored students during weekly office hours and coordinated over 10 one-on-one appointments per month to provide additional support

Engineering Intern Oct. 2023 – Mar. 2024
California Department of Transportation *Irvine, CA*

- Collaborated with team of 8 engineers across 3 departments to optimize traffic operations, signals, and census stations
- Configured AI-integrated Bosch camera systems at over 30 locations to regulate inflow and outflow of traffic, reducing traffic congestion by 40%
- Improved and fixed modems at census stations to communicate to TMC network, increasing communication speeds by 55%
- Organized and highlighted areas of improvement in over 100 traffic intersections to further improve congestion and cost effectiveness

Projects

Personal Website | *JavaScript, React, Tailwind CSS, Framer Motion, Vercel* Nov. 2024 - Jan. 2025

- Designed and developed a personal portfolio website showcasing projects, skills, and experience using React and Tailwind CSS
- Implemented over 5 unique animations with Framer Motion to enhance user engagement and smooth page transitions
- Integrated an EmailJS-powered contact form and deployed site using Vercel with hosting through Cloudflare

Technical Skills

Languages: Java, Python, C, C++, SQL, JavaScript, HTML/CSS, C#, Swift, R
Libraries/Frameworks: React, Tailwind CSS, Framer Motion, TensorFlow, PyTorch, RStan
Development Tools: Git, Docker, Visual Studio Code, Rider, Jenkins, DataGrip, Wireshark, Unity, Vercel, EmailJS, Cloudflare