

# Noah Fuery

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## EDUCATION

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<b>M.S. in Electrical Engineering and Computer Science</b> <i>Chapman University</i>	Aug. 2023 – May 2025 <i>Orange, CA</i>
<b>B.S. in Computer Science, Minor in Mathematics</b> <i>Chapman University</i>	Aug. 2020 – May 2024 <i>Orange, CA</i>

## EXPERIENCE

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<b>C++ Graduate Student Instructor</b> <i>Chapman University</i>	August 2024 – Present <i>Orange, CA</i>
<ul style="list-style-type: none"><li>• Taught C++ to over 30 students in Chapman University's Fowler School of Engineering</li><li>• Covered topics such as C++ compared to other languages, functions, pointers, static vs dynamic allocation, heap and stack, recursion, garbage collection, file and I/O errors, and header files</li><li>• Managed grading, office hours, specialized appointments, and course content creation in a time-effective manner to ensure success for students</li></ul>	
<b>Calculus I Graduate Student Instructor</b> <i>Chapman University</i>	August 2024 – Present <i>Orange, CA</i>
<ul style="list-style-type: none"><li>• Selected by head of math department and associate dean of Chapman University to teach Calculus I</li><li>• Taught over 30 students in Chapman's Schmid College of Science and Technology</li><li>• Covered concepts such as limits, derivatives, continuity, end behavior of functions, chain rule, L'Hopital's rule, integrals, secant and tangential slopes on a function</li><li>• Created all lecture slides, quizzes, and exams from scratch in order to effectively teach students</li></ul>	
<b>Engineering Intern</b> <i>California Department of Transportation</i>	Oct. 2023 – March 2024 <i>Irvine, CA</i>
<ul style="list-style-type: none"><li>• Worked with Caltrans engineers by assisting in the traffic signals, census stations and traffic operations branches</li><li>• Configured AI-integrated Bosch camera systems to regulate inflow and outflow of traffic, reducing traffic congestion by 40% compared to 2018</li><li>• Improved and fixed modems at census stations to communicate to HQ network, increasing communication speeds</li><li>• Organized and mapped out new freeway developments that ensured least traffic congestion and cost effectiveness</li></ul>	
<b>Machine Learning and Adaptive Technology Student Researcher</b> <i>Chapman University</i>	Nov. 2022 – July 2023 <i>Orange, CA</i>
<ul style="list-style-type: none"><li>• Analyzed a dataset with over 50,000 entries in collaboration with 10 Center for Autism and Related Disorders technicians</li><li>• Constructed and worked with numerous classification models such as random forest, logistic regression, and k-nearest neighbors in order to identify key factors influencing the effectiveness of autism behavioral analysis (ABA) therapy</li><li>• Focused on autism research, comparing the effectiveness of ABA therapy in young children with other forms of therapy, contributing to enhanced therapeutic strategies and outcomes</li></ul>	

## PROJECTS

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<b>Video Captioning AI Model</b>   <i>Python, Git</i>	January 2024 - May 2024
<ul style="list-style-type: none"><li>• Developed an AI Video Captioning model using CNNs, LSTMs, and transformers to generate descriptive captions for unseen videos</li><li>• Trained the model on a large dataset of video captions, optimizing it for accurate and context-aware descriptions</li><li>• Improved captioning accuracy and contextual relevance, enhancing user experience and video accessibility</li></ul>	

## TECHNICAL SKILLS

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**Languages:** Java, Python, C, C++, SQL, JavaScript, TypeScript, HTML/CSS, C#, Swift, R

**Frameworks:** React, Tailwind CSS

**Development Tools:** Git, Docker, Visual Studio Code, PyCharm, Rider, Jenkins, DataGrip, Wireshark, Unity