

# Skyler Schuck

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## About Me

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Experience in applied economic analysis & forecasting, budget analysis, and data analysis. A seasoned user in R, SQL, and Python. My research interests include regional analysis, improving rural outcomes, and automated economic modeling and data analysis. Most of my projects are centered around creating data analysis & information systems to support independent analysis and economic model development.

## Education

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| 2021 – 2023 | <b>M.S., Agricultural and Resource Economics, Colorado State University</b><br>Emphasis<br><i>Environmental and Natural Resource Economics</i><br>Thesis <a href="#"></a><br><i>Exploring the Overall, Distributional and Resiliency Implications of Investments in Rural Outdoor Tourism: The Case of Fishers Peak State Park</i> <a href="#"></a> |
| 2017 – 2021 | <b>B.S., Computer Information Systems, California Lutheran University</b><br>Magna Cum Laude, GPA: 3.8  |
| 2017 – 2021 | <b>B.A., Economics, California Lutheran University</b><br>Magna Cum Laude, GPA: 3.8   |

## Professional Experience

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| 12/2023 – present<br>Denver, CO       | <b>Economist &amp; Data Analyst, State of Colorado</b><br>In the Governor's Office of State Planning & Budgeting (OSPB). Budget portfolio includes the Secretary of State and Treasury. Created and developed advanced economic, revenue, and expenditure models and forecasts for various excise taxes, fees, and other miscellaneous fiscal streams. Created multiple data analysis tools for automated officewide budget and policy analysis.  |
| 01/2023 – 12/2023<br>Denver, CO       | <b>Economist &amp; Budget Analyst, State of Colorado</b><br>In the Governor's Office of State Planning & Budgeting. Economist duties include: quarterly forecasting, data management and visualization, economic and revenue inquiries, & modeling development. Budget Analyst duties include: budget development, budget projections, & legislative analysis.  |
| 08/2021 – 05/2023<br>Fort Collins, CO | <b>Graduate Research Assistant, Colorado State University</b><br>Apart of the Regional Economic Development Institute (REDI) at CSU. Generate regional economic analysis for on-going projects and as-needed when requested by City/County/State Agencies. Leading website re-design project for more interactive and engaging experience. Primary tools and skills include: R, Python, SQL, econometric analysis, optimization, and WordPress.   |
| 01/2022 – 01/2023<br>Denver, CO       | <b>Data Science Intern, City and County of Denver</b><br>Housed within the Department of Finance, major duties include generating economic analysis, forecasts, and data science reports for internal and external uses. Internal reports include economic outlook and forecast presentations to the City Council and the Mayor. External facing work includes creating economic indicator dashboards. Daily tasks also include data cleaning, visualization generation, natural language processing (NLP), data mining, named entity recognition (NER), and general consulting with other departments within the city. Primary tools and skills include: R, Python, SQL, Power BI, Visual Basic, ArcGIS, and econometric analysis. |

05/2022 – 08/2022  
Denver, CO

**Data Engineer Intern, Transamerica**

Working within Life Technology in Technology Services, I worked on data and API engineering projects using AWS(API Gateway, Lambda, DynamoDB, etc.) and Java (Spring Boot REST API) for maintenance and feature creation for the Financial Services Agent's web services portal. Other core dependencies include Git, JIRA, Terraform, Jenkins, Python, and agile development.

Skills

<b>Data Analysis</b> STATA	● ● ● ● ●	<b>R</b> Shiny, tidyverse, furr	● ● ● ● ●
<b>Economic Forecasting</b>	● ● ● ● ●	<b>Budget Analysis</b>	● ● ● ● ●
<b>State Budgeting Systems</b> PB, CORE, infoAdvantage	● ● ● ● ●	<b>Dashboarding</b> Power BI, Tableau	● ● ● ● ●
<b>Python</b> Pandas, Pystat, Jupyter	● ● ● ● ●	<b>SQL</b> MySQL, NoSQL, PostgreSQL	● ● ● ● ●
<b>AWS</b> API Gateway, Lambda, DynamoDB	● ● ● ● ●	<b>GIS</b> ArcGIS	● ● ● ● ●

Courses

- Public Budgeting and Finance, Colorado State University
- Optimization Methods, Colorado State University
- Quantitative Methods, Colorado State University
- Applied Econometrics, Colorado State University
- Applied Microeconomic Theory, Colorado State University
- Applied Welfare and Policy Analysis, Colorado State University
- Environmental and Natural Resource Economics, Colorado State University
- Applied Advanced Water Resource Economics, Colorado State University
- Database Management Systems, California Lutheran University
- Data Analysis with R, California Lutheran University
- Software Engineering, California Lutheran University
- Systems Analysis, California Lutheran University
- Information, Systems, and Organizational Design, California Lutheran University

Organizations

- National Association of State Budget Officers, Associate Member