



# Daniel Alhassan

PHD CANDIDATE

Department of Mathematics and Statistics Missouri University of Science and Technology

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## Employment

### Information Technology Specialist I

[Sacramento - California](#)

COVERED CALIFORNIA

March 2022 -> Present

- LANGUAGES USED — T-SQL, Markdown, Python, YAML, HTML, Powershell, Bash, Batch
- TOOLS USED — Git, VS Code, Visual Studio, Azure DevOps, SQL Server Management Studio
- Implemented RedGate Version control, and revamped the enterprise SQL Server and data processing environment.

### Information Technology Associate

[Sacramento - California](#)

COVERED CALIFORNIA

March 2021 -> March 2022

- LANGUAGES USED — T-SQL, Markdown, Python, YAML, HTML, Powershell, Bash, Batch
- TOOLS USED — Git, VS Code, Visual Studio, Azure DevOps, SQL Server Management Studio
- Developed the Ticketer application to automate team ticket processing between databases, client machine, and Azure DevOps REST API.

### Research Data Specialist I

[Sacramento - California](#)

CALIFORNIA STATE WATER RESOURCES CONTROL BOARD

January 2021 -> March 2021

- LANGUAGES USED — R, RMarkdown
- I developed data collection, structuring, and reporting systems for various water rights databases
- I developed and utilized research methodologies and techniques in the area of data collection and analysis

### Research Data Analyst II

[Elk Grove - California](#)

CALIFORNIA CORRECTIONAL HEALTH CARE SERVICES

October 2019 -> Present

- LANGUAGES USED — HTML, CSS, SASS, JavaScript, R, RMarkdown, SQL, CCL
- Client side Cerner Millenium Database Administrator
- I design and disseminate statistical reports and visualizations written with R and RMarkdown
- I create SQL queries to extract raw data from an enterprise wide data warehouse
- Using (HTML CSS/SASS JavaScript) as well as CCL/SQL, I draft stand alone webpages embedded in our Cerner Millenium medical software

### YouTuber

[YouTube.com](#)

YOUTUBE.COM/BRYANJENKSTECH

September 2019 -> Present

- LANGUAGES & TOOLS USED — HTML, CSS, SASS, JavaScript, R, RMarkdown, Bash, Awk, LaTeX, Git, Markdown, VimL
- I teach a variety of technology related topics ranging from programming languages, setting up development infrastructure, to tutorials for Programming Integrated Development Environments.
- I also teach about tools for academics such as LaTeX, BibTeX reference management, reference managers, Zettelkasten note taking, The Obsidian Application, and practices for Personal Knowledge Management.
- My Channel currently has a following of over 140 videos, 6,300 Subscribers, and 300,000 Views

### Open Source Software Developer

[GitHub.com](#)

GITHUB.COM/TALLGUYJENKS

May 2019 -> Present

- LANGUAGES USED — HTML, CSS, SASS, JavaScript, R, RMarkdown, T-SQL, PL-SQL, CCL, VBA, Batch, Bash, Markdown, LaTeX, Groff/Troff

### Owner & Operator

[Galt - California](#)

NORSEMAN LEATHER WORKS

May 2015 -> Present

- LANGUAGES USED — R, RMarkdown
- Create handmade leather goods for sale through online retail
- Analyze Etsy sale csv data files with R and PowerBI to determine marketing and sale strategies
- Utilize R Programming to analyze timeseries trends in sales revenue and expenses

### Research Data Specialist I (A)

[Elk Grove - California](#)

CALIFORNIA CORRECTIONAL HEALTH CARE SERVICES

September 2020 -> November 2020

- LANGUAGES USED — HTML, CSS, SASS, JavaScript, R, RMarkdown, SQL, CCL
- Client side Cerner Millenium Database Administrator
- I design and disseminate statistical reports and visualizations written with R and RMarkdown
- I create SQL queries to extract raw data from an enterprise wide data warehouse
- Using (HTML CSS/SASS JavaScript) as well as CCL/SQL, I draft stand alone webpages embedded in our Cerner Millenium medical software

## Associate Governmental Program Analyst

*Elk Grove - California*

CALIFORNIA CORRECTIONAL HEALTH CARE SERVICES

*November 2018 -> October 2019*

- LANGUAGES USED — R, VBA, RMarkdown, HTML, CSS
- Completed Lean Six Sigma Green Belt Project on the state wide reception center process for inmates entering state custody
- Created a report that processes over 50,000 medical records daily, that simplifies overdue medical appointment resolution for staff state wide
- Conducted data literacy and analysis training to over 120+ department staff of all levels from Office Assistants to CEOs at 10 remote sites
- Created automated reports with VBA programming in Excel using programming concepts such as arrays, loops, variables, objects, & API's
- Region wide subject matter expert in Microsoft Excel

## Staff Services Analyst

*Elk Grove - California*

CALIFORNIA CORRECTIONAL HEALTH CARE SERVICES

*November 2016 -> November 2018*

- LANGUAGES USED — R, VBA, RMarkdown, HTML, CSS
- Conducted data literacy and analysis training to over 120+ department staff of all levels from Office Assistants to CEOs at 10 remote sites
- Created automated reports with VBA programming in Excel using programming concepts such as arrays, loops, variables, objects, & API's
- Region wide subject matter expert in Microsoft Excel

## Information Technology Associate (T&D)

*Elk Grove - California*

CALIFORNIA CORRECTIONAL HEALTH CARE SERVICES

*July 2018 -> September 2018*

- LANGUAGES USED — SQL, CCL, VBA
- Resolved user tickets for the CCHCS Department statewide for issues related to Devices Scheduling and Mental Health Provider builds, and support in relation to the Cerner Millennium Software for the CCHCS EHRS (Electronic Health Record System)
- Used Database Administrator access to grant user permissions, build and route new resources, clinic lines, and locations within the Cerner Millennium medical software
- Troubleshoot issues related to Cerner Millennium for end users and stake holders

## Health Program Specialist (A)

*Elk Grove - California*

CALIFORNIA CORRECTIONAL HEALTH CARE SERVICES

*June 2018 -> July 2018*

- LANGUAGES USED — R, VBA, RMarkdown, HTML, CSS
- Created a tool to simplify data set cleaning for most Quality Management SQL Server reports for front end staff that is utilized state wide
- Conducted data literacy and analysis training to over 120+ department staff of all levels from Office Assistants to CEOs at 10 remote sites
- Created automated reports with VBA programming in Excel using programming concepts such as arrays, loops, variables, objects, & API's
- Region wide subject matter expert in Microsoft Excel

## Office Technician

*Ione - California*

CALIFORNIA CORRECTIONAL HEALTH CARE SERVICES

*April 2016 -> October 2016*

- Analyzed Inmate Health Care Appeals and recommended methods of processing while preparing the appeals for review by the Appeal Coordinator
- Scheduled and conducted inmate interviews to those with disabilities trouble understanding English and low comprehension to ensure effective communication of their response from the Health Care Appeals Office
- Analyzed and interpreted trends in data from several spreadsheets of my design intended to track appeal movement through the institution and support the Health Care Appeals Coordinator in preventing overdue appeals
- Utilize the HCARTS system for the creation and tracking of Health Care Appeals in conjunction with various other programs such as SOMS, Inmate Locator, eUHR, and other correctional programs to effectively track and complete timely between 200-400 appeals per month

## Office Assistant

*Ione - California*

CALIFORNIA CORRECTIONAL HEALTH CARE SERVICES

*September 2015 -> March 2016*

- Analyzed on average 14,000+ medical documents for completion of signatures of the various stages of processing and routing and submission into the Health Care Services eUHR Database every month.
- Documents handled such as but not limited to: Mental Health Treatment Plans, Medical Progress Notes 7230, 7362 Request for Medical Services Forms, and Dental Chart update forms.
- Analyzed and tracked trends in mail volume utilizing MS Excel for the Office Services Supervisor I and reported daily logs for their records.
- Managed created and filed various inmate Dental forms into charts for the entire inmate dental program at Mule Creek State Prison.

# Education

## Ph.D. Mathematics (Statistics Emphasis)

*Rolla, MO*

MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

*2017 ->*

- Advisors: Dr. Akim Adekpedjou & Dr. Gayla Olbricht

## M.S. Mathematics

*New Orleans*

UNIVERSITY OF NEW ORLEANS

*2015 -> 2017*

## B.Sc. Actuarial Science

*Kumasi Ghana*

KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY

*2009 -> 2013*

- Estimation of Beta and the Relationship Between Share Return and Beta in the Emerging Market of Ghana. (coauthored) Advisor: Dr. Lord Mensah

## Skills

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### Programming Languages

PYTHON, R, LATEX, MARKDOWN, RMARKDOWN, GIT, RSTUDIO, EXCEL, OUTLOOK, ONENOTE, POWERPOINT, WORD

## Awards and Honors

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### Midwestern Association of Graduate Schools (MAGS)

*Missouri S&T*

EXCELLENCE IN TEACHING AWARD NOMINEE

*2021*

- Each department nominates one graduate student for this award

## Works

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### Runes

<https://github.com/tallguyjenks/runes>

CONVERT A STRING OF TEXT CHARACTERS TO ELDER FUTHARK RUNES

*February 2020*

- Author and Maintainer
- Released to CRAN

# Certifications

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<b>IBM &amp; Coursera</b> IBM DATA SCIENCE PROFESSIONAL CERTIFICATE	<i>Online</i> 2019
<b>American Statistical Association</b> GRADUATE STATISTICIAN	<i>ASA</i> 2020
<b>DataCamp</b> DATA SCIENTIST WITH R	<i>Online</i> 2019