

# THOMAS P BRAUN

[HTTPS://THOMASPBRAUN.COM](https://thomaspbraun.com) ~ [HTTPS://GITHUB.COM/TBRAUN96](https://github.com/tbraun96)

## SKILLS

SOFTWARE ENGINEERING  
APPLIED CRYPTOGRAPHY  
GEOSPATIAL SCIENCES

## EDUCATION

OREGON STATE UNIVERSITY  
B.S., GEOSPATIAL SCIENCES  
2016 - 2020

## CONTACT

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## PROFILE

A SOFTWARE ENGINEER WITH 3 YEARS OF EXPERIENCE IN **RUST**, WITH A BACHELOR'S DEGREE IN GEOSPATIAL SCIENCES FOR GIS-RELATED WORK.



## WORK EXPERIENCE

**RUST ENGINEER FOR JUNTO (CONTRACTOR) | 2020 FEB - 2020 APR**

- DESIGNED AND PROGRAMMED A LOAD-BALANCING BACKEND FOR HANDLING SQL REQUESTS
- USED TOKIO ASYNCHRONOUS RUNTIME

**SOLIDITY DEVELOPER (FREELANCE) | 2020 DEC - 2021 FEB**

- DEVELOPED A LOTTERY ALGORITHM USING DYNAMIC DIFFICULTY BITMASKS



## PERSONAL ENDEAVORS

DESIGNED AND IMPLEMENTED A NOVEL POST-QUANTUM CRYPTOGRAPHIC PROTOCOL USING THE RUST PROGRAMMING LANGUAGE. NON-SENSITIVE PRODUCT WHITEPAPER ON PERSONAL WEBSITE, ACADEMIC WHITEPAPER DISCLOSABLE AFTER SIGNED NDA (SEEKING PATENT)

# THOMAS P BRAUN

SOFTWARE ENGINEER & GEOSPATIAL  
ANALYST

## Demonstrated Skills

MySQL  
Linux Servers (Apache/Nginx)  
C++/C/C#/Fortran-77/Java  
AutoCAD  
Javascript/CSS/JQuery  
Geospatial programming (R/python)  
REST API's  
Flutter/Dart

## Notable Undergraduate Courses

Geospatial Science (I)	Calculus I, II, III, IV
Geospatial Analysis (II)	Linear Algebra
Geospatial Programming (III)	Discrete Mathematics
Geospatial Modelling (IV)	Statistics I, II
Remote Sensing I	Mathematical Proofs
Geovisualization: Geovisual Analytics	C++ Programming
Geovisualization: Cartography	General Chemistry + Physics