John McAlpine

https://www.linkedin.com/pub/john-mcalpine/a3/22b/471

christophermcalpine@gmail.com | jmcalpin@nmt.edu | 1.432.288.2945

EDUCATION

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

B.S. in Computer Science
Expected May 2019 | Socorro, NM

Minor in Mathematics
Expected May 2017 | Socorro, NM

A.S. in Business
Expected May 2018 | Socorro, NM

TEXAS ACADEMY OF MATH AND SCIENCE (PART OF THE UNIVERSITY OF NORTH TEXAS)

Grad. May 2014 | Denton, Texas, U.S.A.

LINKS

Github:// **chrismamo1**
LinkedIn:// **John McAlpine**

UNDERGRADUATE AND INDEPENDENT INTERESTS

C Programming
OCaml Programming
Cryptography
Web Programming
Mobile development

PERTINENT SKILLS

PROGRAMMING LANGUAGES

Over 5,000 lines:
Java • Vala • JavaScript • C • CSS3 • OCaml
Over 1,000 lines:
Perl • Python • LaTeX • C# • C++ • Common Lisp • Shell Scripting (both BASH and FISH) • x86 assembly
Familiar:
Android • Fortran • Haskell • PHP

TOOLS

Extremely familiar
Vim • Bash shell • GCC/Make/GDB • Ubuntu Desktop Linux • Git/Github • LLVM/Clang
Significant Experience
SQL (MySQL, PostgreSQL, SQLite) • Fish shell • BricsCAD • Ubuntu Server Linux • Eclipse IDE (for Java development) • MonoDevelop IDE (for C# development) • .NET/Mono frameworks • Ocsigen framework • MirageOS and associated tools • Dot/Graphviz
Some Experience
Apache • NGinx • Gentoo Linux • FastCGI • Blender • Arduino • Zsh shell • MS Windows • JQuery

EXPERIENCE

GAME AND LEARN | Co-founder, Head of Research and Development

March 2014 - Ongoing | Denton, TX, U.S.A. and Socorro, NM, U.S.A.

- Helping develop a suite of free applications to help autistic and dyslexic children in the classroom.

MIDLAND SENIOR HIGH SCHOOL FTC ROBOTICS PROGRAM | Software Engineering Mentor

September 2014 - Ongoing | Midland, TX, U.S.A.

- Helping guide a group of STEM-oriented high-school students develop programs to control robots in a competitive environment.

NEW MEXICO TECH COMPUTER SCIENCE DEPARTMENT | Grader and CS Department Tutor

June 2015 - June 2016 | Socorro, NM, U.S.A.

- Student grader+tutor for CSE/IT-113 Introduction to Programming in C and CSE/IT-122 Introduction to Algorithms and Data Structures

NEW MEXICO TECH COMPUTER SCIENCE LLC | LLC Research Project

August 2014 - May 2015 | Socorro, NM, U.S.A.

- Participant in the Android Applications Development LLC, a freshman research program at New Mexico Tech.

CRYPTOSENSE | Software Engineering Intern

July 2016 - October 2016 | Paris, France

- Intern working on cryptography-related applications in both OCaml and Java

REFERENCES

SCOTT CHADDE | Professor of Computer Science

New Mexico Tech

- schadde@nmt.edu
- 1.575.835.6448