

BENJAMIN PRITCHARD – Professional Software Engineer

<https://github.com/BenjaminPritchard>

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VOLUNTEER WORK

- Microsoft TEALS, **Promise Academy, Cleveland**. (Microsoft TEALS is a Microsoft-Funded program to train computer programmers to volunteer go into the schools, and to help establish computer science curriculum there.)
- **Impact Academy**, Canton Ohio. (No Starch Press Foundation Grant to bring Kundalini Piano Mirror into the school.)
- Development of more than 20 open source software projects available on GitHub

PATENTS

- **Kundalini Piano Mirror Firmware** (provisional)

GRANTS

- National Science Foundation + Burton D Morgan matching grant (ICORP) for development of **Kundalini Piano Mirror Firmware** and Associated **Mozart Compile** Compiler Toolchain. (Open Source, and Available on Github)
- No Starch Press Foundation, continued development of Kundalini Piano Mirror, and to bring it into **Impact Academy** to work with students on ambidexterity-based keyboard playing

WORK HISTORY

2022 to present, Code Ninjas (Hudson)

Teaching computer programming and other STEM topics to children 5 to 14 years old. Languages taught include Javascript, .LUA, and C#. STEM topics include 3D printing using TinkerCAD, basic electronic circuit concepts using Snap Circuits STEM kit, and other topics.

2019 to Present, iCompute Consulting (Hudson)

Development of GoLang reflection-based binary encoding/decoding library, maintenance/enhancement of custom e-commerce platform implemented in REACT.js, development of custom linux printer demoeon service running on a Raspberry PI, development of custom GoLang-based database key/value backend database system, development of GoLang NATS.io-based broadcast service.

2017 to Present *Founder, Kundalini Software and System Integration, LLC.*

Custom software development for various clients. Representative 1099 project work include development of the Kundalini Piano Mirror Firmware, the Preferences for Leisure Attributes (PLA) Assessment for use with patients with traumatic brain injury for Dr. Janice Kreiner of the University of the Bahamas, custom Android App for Dr. Michael Sosteric of the University of Athabasca, custom web portal for Allison Yansi of Optimal Wellness, and many more. Details and complete list of projects available at:
<https://kundalinisoftware.com/>

2008 to 2017 *Embedded Firmware Engineer, Mustang Advanced Engineering (Twinsburg)*

Designed, developed, and documented software & firmware for dynamometer and testing systems deployed worldwide. Major languages utilized include VB 6, C#, VB.NET, and Cosmic Embedded C for the HC16 micro controller. Extensive international travel experience implementing projects in **Canada, Mexico, India, France, South Korea, Hong Kong, and China.**

2007 - To 2008 *Senior Software Engineer, TMW Systems (Beachwood)*

Developed and helped maintain MIDP-2 Java-based programs for (pre-Android) cell phones, as well as the VB.NET / IIS / MS-SQL based back-end system.

2006 - To 2007 *Senior Software Engineer, Tegron (Akron)*

Designed and implemented database front-ends in ASP.NET / VB.NET for Oracle-based databases using MVC architecture. Management/Mentoring role of 3 software engineers.

2005 - To 2006 *Lead Software Engineer, Genesis Technology Partners (Akron)*

Designed and implemented database front-ends using VB.NET and C#. Helped maintain back-end server system implemented in MS-SQL and IIS. Administered (and hacked on) Linux-based server for internal use.

2000 - To 2005 *Junior software engineer, Mustang dynamometer* (Twinsburg)

Designed and developed front-end interfaces to dynamometer control systems using Visual Basic 6.0. Maintained and enhanced embedded dynamometer firmware using Cosmic C for the HC16 micro-controller.

EDUCATION

- **In Progress** - Bachelor of Arts, Elementary Education , **Western Governor's University**. (Anticipated graduation: July 2025)
- **In Progress** - 500-hour Hatha Yoga Teacher Training, The Spiritual Life Society and Yoga Center, Hudson, Ohio.

OTHER ACCOMPLISHMENTS

- Intermediate/Advanced-level classical pianist, student of **Nicholas Constantinidis**
- Completion of **Akron** and **Cleveland** Full Marathons
- 200-hour Yoga Teacher certification from the **Nada School of Yoga**, Rishikesh, India