

Kevin Kelley

Freelance Software Engineer

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EXPERIENCE

Ecosave Inc., Philadelphia, PA — *Contract Programmer*

2011 - PRESENT

Tenant-billing system for Comcast Tower, Philadelphia - utilities metering and apportionment system in Skyspark. Node.js server front-end for GUI, skyspark back-end for report generation, MSSQL database.

Psychrometry functions for skyspark - humidity changes as a function of heating/AC.

WebCTRL plugin to integrate WebCTRL with SkyFoundry's Skyspark data collection and analytics.

Houseworks Inc., Little Rock, AR — *Carpenter, crew lead*

2002 - 2011

Framing carpenter, and lead man on construction crew, in residential construction.

Starlight Software, La Junta, CO — *Freelance programmer*

1995 - 2001

Freelance programmer, Java, Javascript, Perl. Large number of small jobs.

- Pulse/Oxygen home health monitor - Java applet, Perl server.
- Digital Circuit Simulator, shipped on cd with textbook - Java app.
- Game applets.
- JBrowse, a class browser and editor for Java, includes syntax highlighting and class decompiling.
- Cannery, a Jar/Zip file archiving utility, written in Java.

TTC, Germantown, MD — *technician to engineer*

Mar 1990 - June 1995

Telecommunications Techniques Corp. manufactures test equipment for the telecoms industry. I started as a repair technician, going to night school, and was promoted to Assoc. Quality Engineer, then Test Engineer, then Software Engineer.

- As Software Engineer I designed and implemented UI framework, in C++ running on embedded RTOS for Motorola 68360 processor.

SKILLS

Monads.

Parsers and DSLs, using PEG, monadic, Earley, ANTLR, others.

D3 charting.

MSSQL, MySQL, MongoDB.

Node.js.

Skyspark, Fantom, Axon (analytics framework with JVM-based serverside, and pure-functional script DSL).

AWARDS

National Merit Scholarship,
SAT 99.9th percentile

- As Test Engineer, I designed, implemented, and put into production a script-able test environment, to allow automated testing in manufacturing. C++/Windows, LL(1) parser, DDE pluggable test modules, IEEE-488 communications to test equipment.
- As Software Quality Engineer, I coordinated training for ISO9000 certification of SW lifecycle.
- As Repair Technician, I implemented a number of database query reports for inventory tracking, JIT restocking, issue tracking.

US Army, Fort Ritchie, MD — *Telecom Technician*

Mar 1986 - Mar 1990

Maintained and repaired communications systems to component level; radios: VLF, HF, VHF, UHF, and satellite; muxes: SLC-24 / SLC-96 channel banks, FSK, STDM(programmable, 24 ch. onto 64K time slot), FDM(analog), others; modems: 3-, 12-, 24-, and 9600 baud, copper and fiber; switches: analog, digital, and secure digital; fiber optics: remote sensors and controllers, muxes; printers and computer equipment.

EDUCATION

Hood College, Frederick, MD — *BS equiv*

Sep 1990 - May 1994

Computer Science / Math double major; 6 credits remaining to BS; All core curriculum requirements completed. 3.85 GPA. Object-Oriented Analysis and Design; Computers and Networking; Modeling and Simulation; Operations Research. Pascal, C++, Smalltalk.

US Army, Fort Gordon, GA — *technician*

Mar 1986 - Jan 1987

Analog and digital electronics fundamentals; multiplexers, microwave radio systems. Military communications systems from the handset to the troposphere.

Anderson University, Anderson, IN — *2 yrs*

Sep 1982 - May 1984

Computer Science major; mathematics and business minors. HP3000 assembler and SPL; BASIC, Pascal, COBOL.

Vocational Electronics Center, La Junta, CO — *technician*

Sep 1980 - May 1982

Basic electricity and electronics. Digital logic theory and practice; projects.

PROJECTS

Nanovg-rs — *vector graphics bindings library for Rust*

Rust-language bindings to the NanoVG vector graphics library.

<https://github.com/KevinKelley/nanovg-rs>

NoobChain-rs — *blockchain tutorial, implemented in Rust*

Follow-along code for a tutorial in blockchain technology.

<https://github.com/KevinKelley/noobchain-rs>