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**OBJECTIVE**

To start a career developing software that will challenge my knowledge and require me to expand my abilities, while allowing me to use my skills designing software and administering systems.

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**SKILLS**

**Programming Languages:** Perl, C/C++, C#, Javascript, Java, SQL, PHP

**Operating Systems:** Linux, Windows NT/2000/XP, some Solaris and BSD

**Applications and Libraries:** PostgreSQL, MySQL, Apache, Lighttpd, Git, CVS, Subversion

**Miscellaneous:** HTML; CSS; IPv4 and IPv6 networking; strong verbal and written communication skills; excellent troubleshooting, problem solving, and debugging skills; very quick learner.

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**EXPERIENCE**

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**Work History****Things Done Later**

2011

**Web Designer, Javascript Programmer, Backend Programmer**

- Created interactive interface and backend for Things Done Later. <http://www.thingsdonelater.com> code available at <https://github.com/simcop2387/TDL>.
- Backend consists of a lightweight FastCGI Perl backend capable of handling large loads without requiring large investments in server capacity.
- Frontend is created using JQuery and features a fully secure login using HMAC-SHA256 challenge-response to allow authentication without transmitting sensitive data.

**Not A New Yorker**

2010

**Web Designer, Javascript Programmer**

- Created several designs and implemented them for <http://www.notanewyorker.com/> and related sites.

**Cyprus Federation of Underwater Activities**

2010

**Programmer**

- Created interactive dive tables to plan no decompression dives without the aide of an expensive dive computer.
- The Perl backend was created to be edited and worked with using the existing workflow of the client.
- More Information: <http://www.oceanssearch.com/>

**Autozone**

2007-2008

**Cashier, Stock**

- Operated the cash register at the front of the store
- Kept the stock room organized
- Installed various parts in customers cars

**CVS**

2002-2003

**Cashier, Stock**

- Operated the cash register at the front of the store
- Assisted customers in a polite manner
- Kept the stock room organized

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**Open Source Work****Github**

- You can also find many more projects on my Github account at <https://github.com/simcop2387/>

## **Farnsworth Programming Language**

2008-

### **Creator, Lead Designer, and Lead Developer**

- Farnsworth is a dynamically typed functional and imperative programming language. It is being designed for applied mathematics and physics. Currently has a working implementation consisting of 26,000 lines of code, including a testing suite for the parts of the language that are finalized.
- More Information: <http://www.simcop2387.info/>

## **AutoSub**

2009-

### **Creator, Lead Programmer**

- A project to aide in the creation of closed captions by identifying portions of video that contain human speech using various types of signal analysis.
- More Information: <https://github.com/simcop2387/autosub>

## **Kona**

2010

### **Web Designer, Javascript Programmer**

- Kona is a simple Wiki application created using modern technologies in Perl and XHTML with CSS3 for a modern layout with MultiMarkup for creating documents.
- More Information: <http://github.com/symkat/Kona>

## **Freedroid RPG**

2003-2004

### **Bug tester, Programmer**

- Found and fixed various buffer overflows and other bugs
- Did some optimization on the original OpenGL and other graphics code in the project

## **MediaSched**

2005-

### **Creator, Lead Programmer**

- MediaSched is a program for easily running any kind of scheduled and unscheduled media playback. Supporting the use of existing calendar/scheduling software for the selection of simple to complex play lists.
- More Information: <http://github.com/simcop2387/MediaSched>

## **EDUCATION**

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### **Kennesaw State University**

2010

- Studying for a degree in Computer Science. Focusing on programming, networks, and databases.

## **REFERENCES**

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|-------------------|------------------------------------|--|
| Michael Parkhurst | Software Developer at Media Temple | <a href="mailto:mparkhurst@mediatemple.net">mparkhurst@mediatemple.net</a> |
| Peter Krumins     | Software Developer/Blogger         | <a href="mailto:peter@catonmat.net">peter@catonmat.net</a>                 |
| James Halliday    | Software Developer                 | <a href="mailto:mail@substack.net">mail@substack.net</a>                   |