

stephendunn

computer scientist



about

+1 (603) 557.5359
Portsmouth, NH 03801
USA

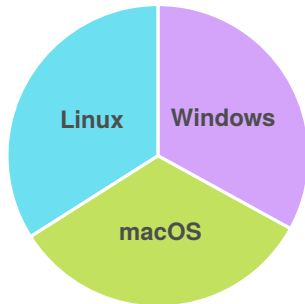
<http://entangledloops.com>
dunn.stephen@gmail.com

programming

Java
(libGDX, LWJGL)
C++
(STL, Boost, OMPL)
C, Python

bioinformatics

CLC Workbench,
MEGA, BLAST Suite,
Mesquite, ClustalX2,
TreeGraph, PHYLIP



editors

IntelliJ, Android Studio,
Visual Studio, Vim,
Eclipse

build systems

Gradle, Maven,
CMake, Autotools

other

OpenGL, Android, R,
Mathematica,
MATLAB, Visual Basic,
PHP, PERL, HTML,
Doxygen, Bash, and of
course L^AT_EX

interests

algorithm design, artificial intelligence, bioinformatics, complexity theory,
motion planning, heuristic search, reverse engineering, theory of computation

education

- | | | |
|-------------|---|---|
| 2012-2015 | M.S. Computer Science | University of New Hampshire, Durham, NH |
| | Focus on AI techniques in Motion Planning, Heuristic Search | |
| 2008-2012 | B.S. Genetics with Honors | University of New Hampshire, Durham, NH |
| | Majoring in Genetics | |
| 2008 Spring | Astrophysics Program Abroad | Suffolk University, Madrid, Spain |
| | Majoring in Physics | |
| 2007-2008 | Introductory Coursework for Bachelor of Science | Suffolk University, Boston |
| | Majoring in Physics | |

experience

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|------------|--|-------------------------------------|
| since 2017 | XMOS Ltd. | Senior Software Engineer |
| | <i>Keyword detection algorithms, signal processing, app development</i> | |
| 2015-2017 | Setem Technologies | Software Engineer |
| | <i>State-of-the-art signal processing, mobile development, native interface</i> | |
| 2014-2015 | CloudAcademy.com | Content Creation & Algorithm Design |
| | <i>Content creation and algorithm design</i> | |
| 2009-2014 | Department of Computer Science, UNH | Teaching Assistant |
| | <i>Intro. to Programming I & II, Data Structures, Scientific Programming</i> | |
| 2013-2014 | Artificial Intelligence Lab, UNH | Researcher |
| | <i>Novel motion planning and heuristic search algorithms</i> | |
| 2011-2013 | Laboratory of Dr. John Collins | Researcher |
| | <i>Src-1 oncogene phylogenetic history</i> | |
| 2011-2012 | Inquiry Undergraduate Research Journal | Editor |
| | <i>Mathematics of Respiratory Mechanics</i> | |

projects

- | | | |
|------------|--|-----------------------------------|
| since 2014 | Semiprime Factorization | Cryptography Research |
| | Rapid semiprime factorization for security applications | |
| 2013-2014 | Abstraction-Guided Sampling for Motion Planning | Motion Planning Research |
| | Bridging heuristic search and motion planning | |
| 2012-2013 | Satisfiability (SAT) Research | Scientific Visualization Research |
| | Solving computationally complex problems with visual aids | |
| 2012-2013 | GraniteVision | Scientific Visualization Research |
| | Rapid traversal and visualization of large scientific datasets | |

Please see my website for a comprehensive project listing.