

Nicholas G. Dunbar

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Boulder
Colorado

Senior Web Applications Engineer

Software engineer with versatile experience in the healthcare industry. Known for successfully adapting to radically different roles such as neurosurgical software, a children's virtual world, and cloud infrastructure. Passionate about teamwork, streamlining features, accelerating productivity by optimizing workflows, and writing unbreakable code. Top technical skills are as follows:

JavaScript		HTML/CSS		Linux
PHP		AWS		BDD/TDD

Career Summary and Achievements

Self Employed

Web application development services for different businesses and individuals

Freelance Web Applications Engineer - Boulder, CO (2011, 2015, 2020)

Some highlights include: a web application for a forex currency trading company, a publishing company, and work for a sociologist.

- Front-end in Javascript, JQuery, HTML/CSS
- PHP (OOP), MySQL, REST API
- Linux CentOS administration
- AWS: EC2, S3, RDS, MySQL, and Bash Scripting

Medtronic - Neurosurgical Group

Leading provider of healthcare software for spine and brain surgeons.

Senior Software Engineer - Louisville, CO (2016 – 2019)

Engineer solely responsible for maintaining and developing neurosurgical software allowing brain surgeons to plan surgeries remotely. See UI screen shot here: <https://designcortex.com/medtronic>

- JavaScript, AngularJS, JQuery, NodeJS, NPM, GruntJS, Jade Templates
- PHP (OOP), Some experience with: C++, Java, Ruby
- BDD (Ruby, Capybara, Selenium, Gerkin), TDD (mocha)
- Linux Ubuntu: administration, bash scripting, security updates
- AWS: High Security HIPAA certified, EC2, CloudFormation, VPN Tunneling, IAM, EBS, and S3

IBM - Remote Storage, Tools, and Automation Team

Provided tools for managing the IBM global storage back bone used by Fortune 500 companies and government defense contractors to store highly private and mission critical business data.

Senior Software Engineer – Boulder, CO (2012 – 2014)

Built a system health check tool that saved IBM from contract breaches that were costing them 100s of thousands of dollars. Developed tools that help speed up the provisionment of storage and tracking of inventory.

- Front-end in Javascript, REST API, HTML/CSS
- High performance MySQL, PHP (OPP), and Linux Shell Scripting

6 Genius Incorporated - Sketch n' Pass Online Vector Editor

Web accessible vector editor for dummies created to allow users to customize designs, share them, and screen print them on apparel or other items. See demo here: <http://designcortex.com/6genius>

Founder – Boulder, CO (2009 – 2011)

Founded start-up, developed front-end and back-end software, recruited and managed two employees.

- Javascript, JQuery, REST API, ActionScript 3.0, ANT
- PHP (OOP), Zend Framework, and Rest API
- AWS: NoSQL Simple DB, Glacier, EBS, BeanStalk, Route 53, and S3
- Linux CentOS administration, Facebook API

Interactive Corporation (IAC) - Green.com Virtual Game World for Children

IAC is one of the largest internet holding companies in the world. Green.com was a 2D platformer virtual world made so children could learn about being environmentally responsible.

Lead Developer – Boulder, CO (2008 – 2009)

Green field project, a game engine that synced multiple players' physics, interactions, and locations in real-time.

- AS3, Javascript, and HTML
- Java and Smartfox back-end modules
- Managed a team of three developers
- Developed game play, designed A/B tests

Environmental Protection Agency (EPA) - Montana Water Center

Provided interactive training via web and CD-ROM for water treatment professionals.

Rich Internet Applications Developer – Bozeman, MT (2002 – 2008)

Green field project, a learning management system written in PHP, SQL, and ActionScript

- Developed advanced UI concepts for learning games and simulations
- Wrote production tools in PHP, ActionScript and JavaScript
- Produced 2D/3D graphics and animation
- Used Lightwave 3D, Adobe CS (Photoshop, Flash, Premier, and InDesign)

Education

Modern Languages French (B.A.) - Montana State University, Bozeman, MT

- Art Minor Equivalent
- Computer Science Minor Equivalent