

# NICHOLAS DUNBAR

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**Full-Stack Web Developer** with 18 years of experience working with start-ups, fortune 500 companies, mentoring, and teaching. Notable projects are brain surgery planning software, IBM software for managing cloud, and a massive multiplayer online virtual world. Known for resourcefulness, willingness to learn, and thoroughly analyzing problems.

## SKILLS AND ACCOMPLISHMENTS

**Front-end Development:** UX/UI, Javascript (JS) | HTML / CSS | GruntJS | AngularJS | ReactJS

**Back-end Development:** Linux | AWS | S3 | EC2 | IAM | MySQL server | MySQL | BeanStalk | Apache | Docker | Javascript (JS) | NodeJS | ExpressJS | PHP | Git

**Communication Skills:** Teacher | Code Reviewer | Mentor | Lead Developer | Certified Productivity Coach | Start-Up Founder | Toast Masters Public Speaking Club Member

**Accomplishment 1:** Delivered neurosurgical software that passed all FDA safety standards.

**Accomplishment 2:** Created a monitoring system that saved IBM over a million dollars in breached contract fees.

**Accomplishment 3:** Created environmental educational programs that were rated best in the world by a Canadian government study.

## WORK EXPERIENCE

### FREELANCE WEB APPLICATIONS ENGINEER | Self-employed, Boulder CO

(04/2019) – Present

Both front-end and back-end coding on various small business websites and internal call center management software. Use Javascript (JS), NodeJS, PHP, ExpressJS Server, ReactJS, Linux, Docker, behavioral driven tests, and unit tests. *Taught a class at Regis University in JavaScript.* See a demo of front-end skills at <http://designcortex.com>

### SENIOR SOFTWARE ENGINEER | Medtronic, Louisville CO

(11/2015) – (04/2019)

Worked in the medical industry. Next generation cloud connected surgical technologies for planning brain surgeries. Front-end was in HTML, CSS, AngularJS, Javascript (JS). Back-end was in PHP. Tools included GruntJS, Jade Templates, SASS, Webpack, and Git. Dev-ops scripts in NodeJS. Unit tests were in Mocha and behavior driven tests in Selenium. Worked on AWS cloud management. Helped IT connect software to hospitals in a high security HIPAA regulated environment. Managed public Linux servers on AWS EC2. Mentored and did code reviews for junior developers. See a screenshot of the product here: <http://designcortex.com/r/medtronic.htm>

### FREELANCE WEB APPLICATIONS ENGINEER | Self-employed, Boulder CO

(03/2014) – (11/2015)

A web application for a forex currency trading company, and a publishing platform for an online magazine. Used Linux, AWS, S3, EC2, IAM, MySQL, HTML, CSS, Javascript (JS), PHP, NodeJS, Git, and GruntJS

### SENIOR SOFTWARE ENGINEER | IBM, Boulder CO

(08/2012) – (03/2014)

Server automation tools for IBM's global storage infrastructure. Worked on Front-end and back in Javascript (JS), and HTML, CSS, PHP, Bash scripting, and MySQL. Software pulled data from around the world in the petabytes. MySQL and PHP had to be highly optimized for performance. Dev-ops scripts in NodeJS.

**FOUNDER | 6Genius Incorporated, Boulder CO**

*(09/2009) – (04/2012)*

Designed and built an online graphics tool that was used to customize designs to be printed on various items like T-shirts and mugs. See a video demo of the product here <http://designcortex.com/r/6genius.htm> Managed a team of 2 people. Did code reviews and mentoring. Used Javascript (JS), HTML, CSS, PHP, MySQL, Bash, AWS, S3, EC2, and BeanStalk.

**LEAD DEVELOPER | Interactive Corp (IAC), Boulder CO**

*(02/2008) – (06/2009)*

Architect and software engineer of a Massively Multiplayer Online Virtual World designed for children 8-13. Managed a team of 4 developers and acted as the bridge between the creative and the technical. Javascript (JS), HTML, and CSS. Did code reviews and mentoring.

**UX DESIGNER | Environmental Protection Agency (EPA), Bozeman MT**

*(03/2003) – (02/2009)*

Motion graphics for E-Learning Products. Wrote a bespoke learning / content management system (LMS) as well as tools for training software in PHP, MySQL, Javascript, HTML, and CSS.

**EDUCATION**

Bachelors in Modern Languages - French | Montana State University, Bozeman

Certified Productivity Coach | American Council on Exercise