James Bryan Graves

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born: 1978, United States of America

- Computer Scientist, Software Development Engineer, >20 years
- Software/System Architecture, OOP, Functional (λ) programming, APIs, Operating Systems
- Data, Data Science
- Algorithms, Complexity, Information Theory
- 2+ years lecturing/teaching Bachelor's students
- Co-founder of grant supported non-profit, >3 grant supported research projects

EDUCATION

Massachusetts Institute of Technology, MIT	Cambridge, MA, US, remote
Quantum Computing Fundamentals, xPRO	*Apr. 2024 – June 2024*
University of Applied Sciences Amsterdam, The Hague, Saxion, Fontys	The Netherlands
Introduction Quantum Computing, Master's curriculum development & test run	*Apr. 2024 – June 2024*
Purdue University	West Lafayette, IN, USA
Bachelor of Science in Computer Science, BSCS, Music Theory Minor	*Aug. 1996 – May 2000*

EXPERIENCE

CTO in residence, tech leadership　　　　　　　　　　　　　　　　May 2024 – Present

Antler, antler.co　　　　　　　　　　　　　　　　　　　　　*Amsterdam, The Netherlands*

- Entrepreneurship, startups, & venture capital
- Quantum computing
- Gen AI, prompt engineering, & AI/ML
- Compute, GPU & cloud

Technology Lead (interim CTO), Senior SDE　　　　　　　　　　　Jul. 2023 – Present

Dream Machine Innovations Inc., More to*, moreto.io　　　*New York, New York, USA, REMOTE*

- Prompt engineering, integration and content creation with Gen AI (OpenAI GPT-4)
- REST API using Python, PostgresSQL
- Apple iOS app in Swift/SwiftUI

Co-founder, CTO, Technology Lead, Senior SDE　　　　　　　　Oct. 2020 – March 2023

THE EMBASSIES of Good Living AG, embassies.com　　　　　*Zürich, Switzerland, REMOTE*

- Intent based iOS app in Swift with Apple Watch & Homepod/Siri support
- REST API using Typescript, Node.js, GraphQL

Researcher, Senior SDE　　　　　　　　　　　　　　　　　　　Oct. 2015 – Oct. 2020

Hubzero, Purdue University, UCSD, San Diego Supercomputer Center (SDSC), hubzero.org　*San Diego, CA, REMOTE*

- JVM based microservices in Clojure (λ) & Java
- Frontend & data visualizations (charting) in Clojurescript (CLJS), Re-frame, React, D3
- Big Data, Hadoop, Apache Solr (NoSQL)
- MySQL, RabbitMQ, Docker
- Published 2 academic papers, multi-conference speaker

Lecturer & Workshop Leader　　　　　　　　　　　　　　　　Dec. 2019 – Jun. 2021

Royal Academy of Art (KABK), kabk.nl　　　　　　　　　*The Hague, The Netherlands*

- Teaching position & workshop leader for Bachelor's level design based coding curriculum
- 2 classes per semester, >30 students each
- Conducted additional lectures & workshops for Master's students

Founder　　　　　　　　　　　　　　　　　　　　　　　　　Feb. 2011 – Nov. 2019

Hackers & Founders, hackersandfounders.nl　　　　　　　*Amsterdam, The Netherlands*

- Meetup group & community
- >10000 members across The Netherlands

- co-working, leased property, $850m^2$ real estate, ≈ 100 desks

Co-founder   Jul. 2013 – Aug. 2018

Hackers & Designers, hackersanddesigners.nl   *Amsterdam, The Netherlands*

- Non-profit (Stichting)
- Mission: To bringing art, design, & technology closer together
- Authored grant awarded applications, funded year over year
- Node.js, Python, Solidity, Ethereum, Linux, Bitcoin, Javascript, RaspberryPi

Technology Lead, Senior SDE   May 2013 – Oct. 2015

Qardio, Inc., qardio.com   *San Francisco, CA & Amsterdam, The Netherlands*

- Apple iOS app in Swift/Objective-C for Bluetooth connected consumer health devices
- REST API, PHP
- AWS, Docker, PostgreSQL, Embedded C
- Wrote approved United States FDA (Food & Drug Administration) application & specifications

Co-founder, CTO, Senior SDE   May 2011 – May. 2013

Ideedock   *Amsterdam, The Netherlands*

- Developed REST API in Javascript/Node.js
- Backbone.js based MVC frontend
- Technologies including AWS, MongoDB

Mobile Lead, Senior SDE   Sep. 2009 – May 2011

Whatser   *Amsterdam, The Netherlands*

- Location (GPS) based social media platform, Augmented Reality (AR)
- Apple iOS/Objective-C, C, C++, REST, APIs, Ruby on Rails

Senior SDE   Jun. 2008 – Jul. 2009

Interactions Incorporated   *Carmel, IN USA*

- Teleconferencing platform
- Java, Java EE, HTTP, APIs, HTML, CSS

Senior SDE   Feb. 2007 – May 2007

Computer Sciences Corporation (Arabia)   *Riyadh, Saudi Arabia*

- Biometrics platform
- Java, Java EE, IBM Websphere, Oracle

Senior Software Consultant   Jun. 2003 – Feb. 2007

Software Architects, Sogeti   *Riyadh, Saudi Arabia*

- Java, Java EE, IBM Websphere, Oracle, DB2

SDE   Oct. 2000 – Feb. 2003

Cantilever Technologies   *Purdue University, West Lafayette, IN USA*

- Java, XML, XLST, PostgreSQL

SDE   May 2000 – Oct. 2000

IBM   *Burlington, VT*

- C++ & Java based test evaluation platform with UI for silicon waffer test results
- IBM Websphere Application Server, DB2

Technical Skills

Languages: C/C++, Python, Javascript, Java, Clojure, .NET/C#, PHP, SQL, GraphQL, Swift, Objective C, . . .
Frameworks: React, Vue, Next/Nuxt, Node.js, Apple Developer, Django, Rails, . . .
Developer Tools: Git, Docker, Google Cloud Platform, AWS, . . .

Speaker / Lecture / Workshop / Events

Coliving Conference, Speaker
Amsterdam, The Netherlands, Sep. 2023

Lecture/Workshop, Royal Academy of Art (KABK)
Den Haag, The Netherlands, Jan. 2023

Speaker, EGI Conference
Amsterdam, The Netherlands, Nov. 2020

Speaker, IMPAKT Festival
Utrecht, The Netherlands, Oct. 2020

Speaker, Gateways Conference, Science Gateways Community Institute (SGCI)
San Diego, CA, USA, Oct. 2020

Lecture/Workshop, Aalto University
Helsinki, Finland, Dec. 2019

Exhibitor, Mutation Festival
Nerdlab, Ghent, Belgium, Oct. 2019

Participant, Sandberg Instituut Masterclass
Amsterdam, The Netherlands, Mar. 2019

Workshop/Exhibitor, Science Gateways Community Institute (SGCI)
San Diego, CA, USA, Sep. 2018

Organizer, Hackers & Designers Summer Academy 2018
Amsterdam, The Netherlands, Jul. 2018

Lecture/Workshop, School of City Design, CAFA
Beijing, China, Oct. 2017

Lecture/Workshop, Fine Arts Academy of Hunan Normal University
Chang Sha, China, Oct. 2017

Exhibitor, Oddstream
Arnhem, The Netherlands, Oct. 2017

Organizer, Hackers & Designers Summer Academy 2017
Amsterdam, The Netherlands, Jul. 2017

Speaker, FIBER Festival, Speaker
Amsterdam, The Netherlands, May 2017

Speaker, Hackers & Founders Meetup
Amsterdam, The Netherlands, Apr. 2017

Speaker, REMEDI Pump collaborative conference
Chicago, IL, USA, Apr. 2017

Residency, Oddstream Oddstay
Arnhem, The Netherlands, Apr. 2017

Exhibitor, STRP Festival
Eindhoven, The Netherlands, Mar. 2017

Workshop, Baby you can drive my car (self-driving car)
Amsterdam, The Netherlands, Feb. 2017

Exhibitor, KASK, ... een kleptomaan neemt de dingen letterlijk ...,
Gent, Belgium, Feb. 2017

Workshop, Big Brother Awards
Amsterdam, The Netherlands, Nov. 2016

Exhibitor, Journey with Hovel Bot
Brussels, Belgium, Oct. 2016

Speaker, ACM Purdue University
West Lafayette, IN, USA, Oct. 2016

Workshop, Endless Cities Festival
Toronto, Canada, Sep. 2016

Speaker, Otis College
Los Angeles, CA, USA, Sep. 2016

Residency, Mad Scientist Festival
Bern, Switzerland, Sep. 2016

Organizer, Hackers & Designers Summer Academy 2016
Amsterdam, The Netherlands, Jul. 2016

Exhibitor, Northside Festival
Brooklyn, NY, USA, June 2016

Speaker/Exhibitor, Sektor 3.0 Conference
Warsaw, Poland, May 2016

Workshop, LibreGraphics Meetup
London, United Kingdom, Apr. 2016

Workshop, Sandberg Instituut
Amsterdam, The Netherlands, Feb. 2016

Exhibitor, ZineFest
Berlin, Germany, Nov. 2015

Workshop, Mozilla Mozfest
London, United Kingdom, Oct. 2015

Speaker, EBF Conference
Groningen, The Netherlands, September 2015

Organizer, Hackers & Designers Summer Academy 2015
Amsterdam, The Netherlands, Jul. 2015

Residency, Invisible Cities Festival
Gorizia, Italy, June 2015

Exhibitor, Appril Festival
Amsterdam, The Netherlands, Mar. 2015

Workshop, University of Amsterdam
Amsterdam, The Netherlands, Feb. 2015

Workshop, Mozilla Mozfest
London, United Kingdom, Oct. 2014

Exhibitor, Collision Conference
Las Vegas, NV, USA, May 2014

Exhibitor/Speaker, Tech Crunch Disrupt
Berlin, Germany, Oct. 2013

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