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Computer Vision Engineer Resume Samples

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THE GUIDE TO RESUME TAILORING

Guide the recruiter to the conclusion that you are the best candidate for the **computer vision engineer** job. It's actually very simple. Tailor your resume by picking relevant responsibilities from the examples below and then add your accomplishments. This way, you can position yourself in the best way to get hired.

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Izaiah Bode

20522 Kuhic Mews, New York, NY ◆ Phone: +1 (555) 555 6752

EXPERIENCE

COMPUTER VISION ENGINEER, TRACKING
Chicago, IL
12/2015 – present
- Contribute research that can be applied to Oculus product development

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- 3+ years developing and designing Computer Vision technologies and systems
- Develop robust software for integrating multiple sensors and tracking systems
- Develop visual SLAM algorithms to solve computer vision problems
- 3+ years developing and designing Computer Vision technologies and systems
- Develop creative computer vision and tracking software for a variety of Oculus products
- Develop novel real-time 3D scene reconstruction techniques and delivering accurate visual odometry systems

COMPUTER VISION ENGINEER, HANDS
Los Angeles, CA
01/2013 – 09/2015

- Knowledge in machine learning, Bayesian filtering, information theory, and 3D geometry
- Participate in cutting edge research in computer vision
- Prototype hardware and software solutions for tracking, detection and modeling
- Apply machine learning to computer vision problems
- Research and prototype techniques and algorithms for object detection and recognition
- Background in Computer Vision
- Working knowledge of software development methodologies such as waterfall, agile, lean, XP, etc

COMPUTER VISION ENGINEER
Chicago, IL
12/2008 – 08/2012

- Plan and execute cutting-edge research to advance Oculus product development
- Develop software for a variety of consumer devices, including novel sensing systems, imaging systems and haptic devices
- Developing robust software for integrating multiple sensors and tracking systems
- Engineering high performance computer vision systems
- Developing creative computer vision and tracking software for a variety of Oculus products
- You'll develop novel real-time 3D scene reconstruction techniques and deliver accurate visual odometry systems
- Ensure quality of software developed meets or exceeds expectations

EDUCATION

CALIFORNIA STATE UNIVERSITY, FULLERTON
Bachelor's Degree in Computer Science

SKILLS

- Excellent knowledge of modern computer vision and deep leraning approaches
- Strong written and verbal communication skills; Ability to effectively communicate design proposals and negotiate options
- Ability to apply analytical and problem solving skills
- Collaborate with hardware, software architecture, quality assurance and developer experience teams
- Excellent communication and teamwork skills
- Excellent C/C++ and OpenCV programming skills
- Strong computer vision skills
- Good English and presentation skills are a big
- Solid understanding of linear algebra, geometry, meshes, image processing
- Be a key player in improving the performance and stability of Leap Motion tracking

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1 Computer Vision Engineer, Oculus

Resume Examples & Samples

- You'll develop creative computer vision and tracking software for a variety of Oculus products and services
- You'll develop novel real-time 3D scene reconstruction techniques and deliver accurate visual odometry systems
- You'll research and prototype techniques and alogrithms for object detection and recognition
- Prototype hardware and software solutions for tracking, detection and modeling

2 Computer Vision Engineer

Resume Examples & Samples

- Evaluate and implement image processing or low-level computer vision algorithms for real time eye-tracking systems
- Develop creative computer vision and tracking software
- Prototype solutions for tracking, detection and modeling

3 Computer Vision Engineer

Resume Examples & Samples

- MS or PhD degree in Computer Science, Computer Vision, Machine Learning, or related technical field preferred
- Strong background in Computer Vision
- Practical knowledge of machine learning, Bayesian filtering, information theory, and 3D geometry

4 Computer Vision Engineer

Resume Examples & Samples

- Develop new software and algorithms as well as learn and maintain existing products
- Ensure quality of software developed meets or exceeds expectations

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- Work closely with designers and production staff to help define software and hardware requirements
- Bachelors of Science Degree or higher in a science or engineering discipline from an accredited university
- MS or PhD in Computer Science, Electrical Engineering, or Applied Mathematics from an accredited university
- Expertise in computer vision sub-disciplines such as: image analysis (object recognition and feature detection), 3D computer vision (acquisition / 3D sensing, computational imaging, segmentation, registration), machine learning (feature extraction, classification, clustering), embedded and real-time computer vision, video understanding (action recognition, scene summarization), analysis and reduction of high-dimensional data
- Experience with 3D sensor data (ToF, Stereo, Structured Light, Lidars)
- Experience in dealing with real world data in one or more of the following areas: computer vision, machine learning, data science, probabilistic inference, and/or computational statistics
- Experience with 3D visualization algorithms and computational approaches, e.g. meshing of point clouds, marching cubes algorithm variants, 3D geometry and texture rendering and shading
- Experience with regulatory processes, quality systems and FDA requirements
- Programming languages: MATLAB, C, C++, Python, C#, .NET

5 Computer Vision Engineer

Resume Examples & Samples

- You will be expected to be recognized experts in identified research areas such as computer vision, artificial intelligence, machine learning, and applied mathematics, particularly including areas such as deep learning, graphical models, reinforcement learning, computer perception and data representation
- You will develop state-of-the-art algorithms in one or all of the following areas: deep learning (convolutional neural networks), structure from motion, object detection/classification, scene understanding, disparity point cloud, 3D scene reconstruction, visual odometry, stereo vision, multi-sensor fusion, etc
- Ground truth, test, and validate algorithms for statistical performance, as it relates to current state-of-the art and other sensor modalities

6 Computer Vision Engineer

Resume Examples & Samples

- Apply mathematical techniques (geometry, linear algebra, numerical methods, error analysis) and machine learning techniques to prototype and develop image processing algorithms
- Implement substantial portions of production code in C++
- Be a key player in improving the performance and stability of Leap Motion tracking
- Guide the requirements for next generation hardware prototyping

- Collaborate with hardware, software architecture, quality assurance and developer experience teams

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7 Computer Vision Engineer

Resume Examples & Samples

- Develop state-of-the-art computer vision algorithms and examples to deliver to customers worldwide
- Participate in planning and prioritizing, write functional specifications and lead design reviews
- Implement and test algorithms using MATLAB and C++ on Windows, Linux, and Macintosh platforms
- Collaborate with other developers, quality engineers, usability specialists, and documentation writers
- A bachelor's degree and 7 years of professional work experience (or a master's degree and 5 years of professional work experience, or a PhD degree) is required
- Ph.D. or M.S. and 4+ years of experience in solving computer vision problems
- Broad foundation in computer vision theory and algorithms
- Experience with MATLAB and C++
- Excellent communications and team skills

8 Computer Vision Engineer

Resume Examples & Samples

- Engineering education
- Minimum 2 years of work experience inside computer vision and machine learning solutions development
- Successful experience in real-time algorithms proposal, prototyping, design, development and testing on embedded platforms
- Technical skills

9 Lead Computer Vision Engineer

Resume Examples & Samples

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- Defining technical strategy and platform architecture
- Leading and developing team members in the area of 3D data reconstruction and manipulation
- Participating in computer vision and machine learning algorithms and applications development
- Experience developing computer vision algorithms and applications
- Experience commercializing medical device software systems in imaging and diagnostics
- Demonstrated scientific excellence as evidenced by publications and presentations

10 Computer Vision Engineer

Resume Examples & Samples

- Experience with threads, locks and other parallel programming fundamentals
- Solid understanding of linear algebra, geometry, meshes, image processing
- Hands on implementation and product development experience. -Ability to implement cross-platform code suitable for multiple form factors and computing environments
- Ability to develop for performance at both the algorithm and code levels
- Ph.D., MS, or equivalent experience in Computer Vision, Computer Graphics, or related fields
- Experience with GPU programming, MPI, and/or hardware acceleration.-Knowledge of multi-baseline stereo algorithms, segmentation, signed distance fields
- Familiarity with spatial data structures for acceleration, such as octrees
- Highly self-directed and motivated; comfort collaborating with multiple partners across geographies

11 Computer Vision Engineer, Face

Resume Examples & Samples

- 3+ years of experience engineering in C++
- Background in Computer Vision
- Knowledge in machine learning, Bayesian filtering, information theory, and 3D geometry

12 Computer Vision Engineer, Hands

Resume Examples & Samples

- Develop creative computer vision and tracking software for a variety of Oculus products
- Contribute research that can be applied to Oculus product development
- MS or PhD degree in Computer Science, Computer Vision, Machine Learning, or related technical field

Computer Vision Engineer
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- Develops, implements, analyzes & optimizes
- MSc or PhD in electrical engineering, computer science, physics, mathematics or other related field
- 5 years of combined experience in image processing, computer vision and machine learning
- Extensive experience with mathematical and analytic techniques, including linear algebra, geometry, statistics, and multivariate analysis and their applications to real-time object tracking and object classification
- Five or more years of experience developing in C and C++ development on windows and Linux OS
- Two or more years of experience using Matlab
- Strong analytical skills and creative problem solving capabilities
- Ability to integrate and work within in a small, dynamic, and highly motivated development team

14 Computer Vision Engineer

Resume Examples & Samples

- Analyze, design, develop and debug software for advanced VR and AR prototypes
- Collaborate in a team environment across multiple research and engineering disciplines, making the architectural tradeoffs required to rapidly deliver software solutions
- Develop software for a variety of consumer devices, including novel sensing systems, imaging systems and haptic devices
- BS/MS degree in Computer Science, Computer Engineering, or related field
- 5 or more years C++ experience, including mastery of templates and other modern C++ features
- Experience with CUDA or similar GPGPU processing techniques

15 Computer Vision Engineer

Resume Examples & Samples

- Closely collaborate with software engineers, data engineers, designers, program management, and quality assurance to ensure prototypes and solutions are delivered efficiently and effectively
- Effectively communicate ideas, issues, status, and outcomes with the team and other people in the organization
- Drive software prototypes from inception, development, implementation, QA, launch, and ongoing support
- Gain the respect of the team as well as other stakeholders within the business, game teams, and other partners in the organization
- Assist in promoting a positive engineering and team culture

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Computer Vision Engineer, Tracking
Resume Examples & Samples

- Participate in cutting edge research in computer vision
- Develop novel real-time 3D scene reconstruction techniques and delivering accurate visual odometry systems
- Research and prototype techniques and algorithms for object detection and recognition
- Perform research that enables modeling and tracking the human body
- 5+ years developing and designing Computer Vision technologies and systems
- Prototyping skills

17 Senior Computer Vision Engineer

Resume Examples & Samples

- Experience with real-time CV methods (e.g. 2D and 3D detection and tracking, SLAM, 3D reconstruction)
- Experience with deep learning and applications to image understanding
- Excellent C++ programming skills
- M.S. in computer science, robotics, or a related field
- PhD in computer science, robotics, or a related field
- 3 years of Industrial experience in automotive field, AR/VR, or robotics
- Experience in processing camera and sensor data
- Neural networks and machine learning methods
- Strong math background
- Convex or global optimization with applications in computer vision
- Experience in developing large software systems
- Experience in performance optimizations, writing efficient implementations, and software debugging

18 Computer Vision Engineer

Resume Examples & Samples

- Specific experience in developing computer vision algorithms and applications, including areas such as motion capture, motion estimation, 3D reconstruction, structure-from-motion, visual odometry, feature detection and matching, machine learning, etc
- Strong signal and image processing skills
- Demonstrated ability to model and simulate complex computer vision systems using a variety of tools, such as C/C++, Python, and Matlab

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- Beneficial experience includes algorithm development using graphical processing units (GPU's) with programming in CUDA or OpenCL, and experience developing embedded systems for visual applications
- Background Investigation: Applicants selected will be subject to a Federal background investigation and must meet eligibility requirements for access to classified matter in accordance 10 CFR 710, Appendix B
- Drug Testing: All Security Clearance (L or Q) positions will be considered by the Department of Energy to be Testing Designated Positions which means that they are subject to applicant, random, and for cause drug testing. In addition, applicants must be able to demonstrate non-use of illegal drugs, including marijuana, for the 12 consecutive months preceding completion of the requisite Questionnaire for National Security Positions (QNSP)

19 Computer Vision Engineer

Resume Examples & Samples

- Develop real-time computer vision and machine learning algorithms to analyze high-resolution point cloud data in highly dynamic scenes. The principal focus of these algorithms is directed toward the segmentation, detection, recognition, tracking, and motion prediction of common objects in road environments. Examples of such objects include, but are not limited to, vehicles, pedestrians, road signs, and obstacles such as potholes, traffic cones, and road debris. (High-resolution point cloud data streams may contain up to ~10 million points per second within a volume of ~1 million cubic meters.)
- Develop software tools to spatially register and filter sequences of point clouds to generate large scale maps
- Develop software and tools to enable sensor fusion between LIDAR and vision cameras
- Develop high quality user interfaces and 3D visualization tools for interaction and display of algorithm results
- Expertise in real-time computer vision algorithm development
- Experience with machine learning and convolutional neural networks
- High level proficiency in C/C++ and object oriented API development
- Familiarity with LIDAR systems and point cloud datasets
- Experience with at least one or more of the following libraries: Point Cloud Library, OpenCV, CUDA, OpenCL, OpenGL, or other related libraries
- Experience with code optimization and hardware acceleration using CUDA, OpenCL, SSE/AVX, multithreading, or related optimizations
- Experience with scripting languages such as Matlab or Python for algorithm prototyping
- Experience with real-time digital signal processing of high bandwidth data streams (>1 GB/s)
- A strong foundation in optics and photonic systems with practical experience in the characterization, use, and/or modeling of optics, and image sensors
- Experience developing tools for calibrating optics, sensors, and vision systems
- Proficiency in multiple operating systems such as Linux and Windows
- Experience with Qt for graphical user-interface development

BS, MS, or PhD in computer science, electrical engineering, or related field

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20 **Computer Vision Engineer**
Resume Examples & Samples

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- Algorithm research and development (C++, C, Python)
- Collaborate with team to build optimal solutions and new ideas that improve the user experience
- Prototype solutions for proof of concept, and develop and deliver solutions for the product
- Analyzes design and determines coding, programming, and integration activities required based on specific objectives and established project guidelines
- Participates as a member of project team of other firmware engineers and internal and outsourced development partners to develop reliable, cost effective and high quality solutions for assigned systems portion or subsystem
- Collaborates and communicates with internal and outsourced development partners regarding design status, project progress, and issue resolution
- Doctorate, Computer Science and/or Electrical Engineering + minimum 0-2 years of relevant work experience
- Computer vision algorithm development and optimization with CPU, DSP or GPU
- Depth sensing
- Machine learning
- Statistics and data analysis
- C, C++, Python, CUDA, OpenCV
- Industry API, SDK experience
- Must have relevant industry work experience
- Specific knowledge in the following areas is a plus
- Digital Camera Processing
- Image and Video Processing
- Object Detection and Tracking
- Pattern Recognition
- Gesture Recognition
- Sensor Fusion
- 3D Vision
- Machine Learning
- Using firmware design tools and languages
- Ability to apply analytical and problem solving skills
- General understanding of firmware and hardware design, including interactions and integrations of firmware with hardware
- Strong written and verbal communication skills; Ability to effectively communicate design proposals and negotiate options

21 Computer Vision Engineer, Eye Tracking

Resume Examples & Samples

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- Design, develop and implement new novel eye tracking and gaze estimation algorithms across all Oculus products
- Contribute to cutting edge research in computer vision that can be applied to future Oculus products
- Devise data-driven techniques to characterize the performance of eye tracking systems
- Utilize multiple sensors and tracking systems to integrate eye tracking into a computer vision framework
- 5+ years' experience developing computer vision algorithms
- 5+ years' experience working in the areas of 3D reconstruction, SLAM, object detection and tracking and/or computer graphics
- C++ coding skills
- Experience with algorithm evaluation and determination of success criteria

22 Drone / Computer Vision Engineer

Resume Examples & Samples

- As a Drone/Computer Vision Engineer, you will be responsible for developing and improving existing algorithms for localization, mapping, and planning
- You will use your computer vision and sensor fusion techniques to merge data from depth cameras Intel RealSense, IMUs, and other sensors to make sense of the environment surrounding the drone
- You will implement the previously described techniques and algorithms in Intel's state-of-the-art drone technology to demonstrate functionality and feasibility
- Must be pursuing a Masters or Ph.D in Electrical Engineering, Computer Engineering, Computer Science or other science/engineering related field
- Computer Vision, Image Processing
- Object Recognition Algorithms
- Simultaneous Localization and Mapping algorithms SLAM
- Dead Reckoning
- Experience and familiarity with
- Yocto Linux
- ROS and OpenCV
- Computer Graphics i.e. raw OpenGL and DirectXIntel RealSense

23 Computer Vision Engineer

Resume Examples & Samples

- 3+ years of experience developing product-level computer vision algorithms
- Excellent computer vision skills

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- Excellent C/C++ programming skills
- Experience with SW/HW parallelism, and asynchronous processing
- Excellent communication and teamwork skills

24 Computer Vision Engineer UAV Software Group

Resume Examples & Samples

- MSc or PhD in Electrical Engineering, Computer Science, Mechanical Engineering or equivalent
- Extensive experience in real-time computer vision or machine learning, specifially visual-inertial odometry, 3D reconstruction or object tracking
- Extensive experience in writing highly efficient C/C++ code on embedded platforms, preferably also using NEON/SSE instructions and/or OpenCL/CUDA
- Good understanding of state-of-the-art mobile SoC platforms and vision/inertial sensors in terms of power, performance and cost
- Experience in working in an engineering team in a fast-paced multinational environment with stakeholders across the globe
- Good understanding of agile software development processes

25 Computer Vision Engineer

Resume Examples & Samples

- Design, implement, and deploy full-stack computer vision solutions
- Investigate and solve exciting and difficult challenges in image recognition, classification, and deep learning
- Research and develop scalable computer vision solutions to hard problems
- Use the latest advances in computer vision/imaging algorithms for embedded systems to bring new experiences for our customers
- BS Computer Science, Engineering or related subject
- 1 year of experience developing product-level computer vision algorithms
- Strong computer vision skills
- Excellent C/C++ and OpenCV programming skills
- Software design, problem solving and debugging skills
- Experience with SW/HW parallelism

26 Mobile Computer Vision Engineer

Resume Examples & Samples

- Bachelors/Masters degree in computer science. Computer vision specilization in Masters or Phd is

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big plus

- Experienced with application development using OpenCV and OpenGL for mobile devices
- Experience with 3D reconstruction on mobile device
- Must be familiar with development tools such QT creator and Android Development Studio
- Any experience utilizing mobile GPU frameworks such as OpenCL or Metal is a huge plus
- Must be very strong with coding in C++ and OOAD
- Source code management using git

27 Computer Vision Engineer

Resume Examples & Samples

- Developing creative computer vision and tracking software for a variety of Oculus products
- Participating in cutting edge research in computer vision
- Developing novel real-time face detection and tracking systems
- Applying deep learning to computer vision problems
- Researching and prototyping techniques and algorithms for visual recognition
- Engineering high performance computer vision systems
- Contributing research that can be applied to Oculus product development
- Developing robust software for integrating multiple sensors and tracking systems
- Prototyping hardware and software solutions for tracking, detection and modeling
- Performing research that enables modeling and tracking the human body
- 3+ Years designing and developing Computer Vision technology
- Knowledgable in Computer Vision
- Ability to prototype
- Knowledge of machine learning, Bayesian filtering, information theory, and 3D geometry

28 Computer Vision Engineer, Tracking

Resume Examples & Samples

- Develop Visual SLAM algorithms to solve computer vision problems
- MS or PhD degree in Computer Science, Computer Vision, Robotics, Machine Learning, or related technical field
- Experience with Visual SLAM, VIN, EKF and IMU
- Knowledge in machine learning, Bayesian filtering, information theory and 3D geometry

29 Computer Vision Engineer

Resume Examples & Samples

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- Excellent knowledge of modern computer vision and deep learning approaches
- Experienced with deep learning frameworks (Caffe, TensorFlow)
- Experienced with shallow computer vision algorithms
- Programming: python, C++ is a plus
- Out of the box thinking, focused on result
- Good English and presentation skills are a big plus

30 Computer Vision Engineer

Resume Examples & Samples

- Plan and execute cutting-edge research to advance Oculus product development
- Collaborate with HW and SW engineers to develop prototype solutions for tracking, detection and modeling
- Currently has or is in the process of obtaining a MS degree in the field of Computer Vision, Machine Learning, Computer Graphics, Robotics or similar
- Must be available to start employment on or after July 1, 2017
- 1+ years experience with computer vision – specifically real-time tracking (e.g. of objects, hands, bodies, faces) or 3D reconstruction
- 2+ years of experience engineering in C++
- Experience with computer vision/machine learning libraries such as OpenCV, Matlab, or Torch
- Interpersonal skills: cross-group and cross-culture collaboration
- Able to obtain work authorization in Switzerland in 2017

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